

Dr. EDUARD BABULAK

Ontario, Canada edobabulak@gmail.com

Summary

- I am a global scholar, researcher, consultant, educator, professional engineer and polyglot.
- I serve as Panelist for the US National Science Foundation and Expert for the European Commission.
- I served as Chair of Board of Directors, First Director of Japan Pacific ICT Center, Head of School and Department Chair
- I worked in industry, business, academia and consulting
- I've successfully published 19 books, 7 edited books, 19 book chapters, 40 peer reviewed journal papers, 1 AI Blog Article, 1 Research Topic, and 1 Special Issues. I've presented over 300 talks, including Plenary Keynotes, and Invited Colloquial Talks worldwide.

Skills

- Strategic Leadership and Governance
- Visionary , Goals Setting
- Strategic Initiatives and Planning
- Budgets Management & Business Growth
- Innovation and Digital Transformation
- Interdisciplinary and International Collaboration
- Excellent Communication and Analytical Thinking
- I communicate in sixteen 16 foreign languages
- Strong Work Ethics, Professionalism and Integrity
- Career and Team Development
- Charing Conferences, Workshops and Webinars

Professional Summary

- I was trained as Electrical and Electronics Engineer and continued my education in Computer Aided Engineering and Robotics, followed by Information Systems and Computer Science.
- Before pursuing my graduate studies, I've worked eight (8) years in industry as Electrical Engineers and Project Manager,
- My lifelong studies, training and work laid a solid foundation for my engineering approach to explore and to master the Information Communication Technologies (ICT), Computer Networks Communication & Internet Technologies, Digitalization, e-Services, Cyber Security, and the Artificial Intelligence (AI) in conjunction with the Robotics, and the Rise of the Ultra Smart Cyberspace.
- My academic and engineering work was recognized internationally by the Engineering Council in UK, the European Federation of Engineers and credited by the Ontario Society of Professional Engineers and APEG in British Columbia in Canada.
- I serve as the Editor-in-Chief, Associate Editor-in-Chief, Co-Editor, and Guest-Editor.
- I served as Chair of the IEEE Vancouver Ethics, Professional and Conference Committee.
- I was Invited Plenary & Keynote Speaker in Tokyo (2023), Oxford (2020 & 2023), University of Cambridge (2005 & 2010), MIT (2005 & 2010), Yokohama National University & University of Electro Communications in Tokyo (2009 – 2010), Kyushu Institute of Technology (2016), Japan, Shanghai Jiao Tong University (2013), Sungkyunkwan University in Korea (2012 – 2014), University of Surrey, Purdue University, Penn State, Graz University of Technology, Austria, Czech Technical University, and other prestigious academic institutions worldwide.
- My biography was cited in the Cambridge Blue Book, Cambridge Index of Biographies, Stanford Who's Who, and number of issues of Who's Who in the World and America.

Education

- Doctor-Habilitated (D.Sc.- Docent) in Information Technology, University of Pardubice (Czech Republic), 2008
- Ph.D.in Computer Science, Staffordshire University (United Kingdom), 2003
- M.Sc. in Information Systems, University of East London, (United Kingdom), 1991
- High National Certificate in Computer Aided Engineering, Brighton College of Technology (United Kingdom), 1990
- Diplom Ing., (B.Sc. & M.Sc.) in Electrical Engineering, Technical University of Kosice (Slovakia), 1982
- High National Diploma in Electronics & Telecommunications Engineering, Electro-technical College , Kosice (Slovakia), 1976

Honors

- Fellow of the Royal Society RSA, London, UK;
- Chartered Professional IT Fellow, Mentor and Elite Group Member of British Computer Society, London, UK
- Invited Panel Member for National Science Foundation, USA
- Expert Consultant for EU HORIZON2020 & CORDIS FP6 - FP7 European Commission, Brussels, Belgium
- Mentor and Senior Member of the IEEE and ACM, USA
- Nominated Fellow of the Institution of Engineering and Technology, London, UK and Distinguished Member of the ACM, USA
- Chartered Member of the IET, London, UK
- Professional Member of American Society for Engineering Education, American Mathematical Association, and Mathematical Society of America, USA

Business & Consulting Experience

I am currently serving as:

1. Professor Panelist in Computing and Cyber Security for the National Science Foundation, in Alexandria, VA, USA - [NSF - National Science Foundation](#) Note, I serve as Professor Panelist for the NSF since 2013.
2. Consultant Expert in Computer Science & Cyber Security for the European Commission (ERASMUS since 2023, EU CORDIS since 2007), registered Consultant with the HORIZON 2020, Brussels, Belgium
3. Founding Member of the Future Lab Artificial Intelligence, Germany
4. Honorary Chair, Chief Mentor & Senior Advisor, Core Advisory Committee at the World Assessment Council
5. Co-Committee Member of the World Assessment Council Digital Innovation Lab
6. Head of Community, Edorer - [Team Edorer – Edorer](#) (Edorer is the e-Learning Management System)
7. Main contact at the University of Maryland University College, USA. The NGI is bridging EU-US research on Next Generation Internet - <https://ngiatlantic.eu/user/600>

List of Work Experience

| | |
|---|--|
| Professor Panelist in Computing and Cyber Security | National Science Foundation, VA, USA (from 2013) |
| Professor Expert in Computing and Cyber Security | European Commission, Brussels, Belgium (from 2007) |
| Professor of Computer Science | Liberty University, Lynchburg, VA, USA (2018-2020) |
| Professor of Computer & Cyber Security | Zigurat, Barcelona, Catalonia, Spain (2017-2018) |
| Visiting Professor of Informatics | Fort Hays State University, KS, USA (2016-2017) |
| Professor of Informatics | Institute of Technology and Business, Czech Republic (2015-2016) |
| Professor of Computer Science | Maharishi University of Management, IA, USA (2014-2015) |
| Professor of Computer Engineering | Sungkyunkwan University, South Korea (2012-2014) |
| Adjunct Associate Professor of Cyber Security | University of Maryland University College, MD, USA (from 2010) |
| Professor, Director of School of Computing, IS & Math | University of South Pacific, Suva, Fiji (2009-2010) |
| Visiting Professor of Informatics | University of Economics in Prague, Czech Republic (2009-2009) |
| Visiting Professor of Information Technologies | Fairleigh Dickinson University-Vancouver, Canada (2007-2009) |
| Chair Professor of Information Systems | Girne American University, Girne, Cyprus (2006-2007) |
| Visiting Professor of Telematics Engineering | Universidad Carlos III de Madrid, Leganes, Spain (2006-2006) |
| Visiting Professor of Electrical Eng. & Informatics | University of Pardubice, Pardubice, Czech Republic (2005-2006) |
| Visiting Professor of Computer Engineering | University of Quebec in Rimouski, QC, Canada (2004-2005) |
| Senior Lecturer of Computing | Staffordshire University, Stoke-on-Trent, UK (2001-2005) |
| Associate Professor of Computer Science | Azusa Pacific University, Azusa, CA, USA (2000-2001) |
| Visiting Lecturer of Computer Engineering | Penn-State Erie, Erie, PA, USA (1999-2000) |
| Lecturer of Mathematics | University of Ottawa, ON, Canada (1998-1999) |
| PhD Candidate and Teaching Assistant in Computing | University of Ottawa, ON, Canada (1995-1995) |
| PhD Candidate and Teaching Assistant in Computing | Polytechnic of Montreal, QC, Canada (1993-1995) |
| Master of Science studies | University of East London, UK (1990 – 1991) |
| High National Certificate studies | Brighton College of Technology (1989-1990) |
| Head of Department, Project Manager and Electrical Engineer | Automation Industry, Czechoslovakia (1982 – 1989) |
| Telecommunications Cable Man | Automation Industry, Czechoslovakia (1976 – 1977) |

Websites

[Eduard Babulak](#)

[Eduard Babulak | IGI Global Scientific Publishing](#)

[Call for Chapters: Quantum Enhancements to the AI Industry | IGI Global Scientific Publishing](#)

Collaborators & Other Affiliations

Collaborators - total number of collaborators and co-editors (45)

Topic Editor: Cyber Security Prevention, Defenses Driven by AI, and Mathematical Modelling and Simulation Tools. Frontiers in Computer Science: Computer Security

Guest Editor: The Special Issue on “[CloudIoT: Convergence Services between the Cloud and IoT]”(ITICC)

Editorial Advisory Board: The IGI Handbook of Research on the IoT, Cloud Computing, and Wireless Network Optimization

Vice Editor:

- Transactions on Machine Learning and Data Mining (ISSN: 1865-6781) – <http://www.ibai-publishing.org/journal/mldm/board.php>

Member of Editorial Board:

1. International Journal of Internet of Things and Cyber-Assurance
2. International Journal of Internet of Things and its Applications
3. International Journal of AI, Computer Science and Robotics Technology, IntechOpen, 2022

Editorial Advisory Board: The IGI Handbook of Research on the IoT, Cloud Computing, and Wireless Network Optimization

Reviewer: Wiley’s two Books and ten Book Chapters

Current Journals Reviewer:

- Elsevier Journal [Array | Journal | ScienceDirect.com by Elsevier](#)
- UK Scientific Publishing Limited: [Digital Technologies Research and Applications\(DTRA\)](#)
- [Information and Software Technology | Journal | ScienceDirect.com by Elsevier](#)
- Elsevier Journal of Network and Computer Applications: <https://www.sciencedirect.com/journal/journal-of-network-and-computer-applications>
- [COSE | Computers & Security | Journal | ScienceDirect.com by Elsevier](#)
- Elsevier Computer Networks - <https://www.journals.elsevier.com/computer-networks>
- Elsevier Computer Communications - <https://www.journals.elsevier.com/computer-communications>
- Elsevier Computers & Electrical Engineer - <https://www.journals.elsevier.com/computers-and-electrical-engineering>
- Elsevier International Journal of Medical Informatics - <https://www.journals.elsevier.com/international-journal-of-medical-informatics>
- Elsevier Computers & Education: Artificial Intelligence - <https://www.sciencedirect.com/journal/computers-and-education-artificial-intelligence>
- Elsevier Computers & Education - <https://www.journals.elsevier.com/computers-and-education>
- Elsevier International Journal of Hydrogen Energy - <https://www.journals.elsevier.com/international-journal-of-hydrogen-energy>
- IEEE Communication Letter - <https://www.comsoc.org/publications/journals/ieee-comm1>
- IEEE Transactions on Green Communications and Networking - <https://www.comsoc.org/publications/journals/ieee-tgcn>
- Springer Neural Computing and Applications - <https://www.springer.com/journal/521>
- Springer Journal of ambient intelligence & humanized computing - <https://www.springer.com/journal/12652>
- Springer Human-centric computing and information sciences - <https://hcis-journal.springeropen.com/>
- MDPI International Journal Applied Nano - <https://www.mdpi.com/journal/applnano>
- MDPI BioMedInformatics (ISSN 2673-7426) - [BioMedInformatics | About \(mdpi.com\)](#)

Earlier Journals Reviewer:

- [Advances in Intelligent Systems and Computing](#)
- [International Journal of Continuing Engineering Education and Life-Long Learning](#)
- [Journal of Next Generation Information Technology, Korea](#)
- [Journal of Convergence Information Technology, Korea](#)

- e. International Journal of Digital Content Technology and its Applications, Korea
- f. International Journal of Simulation: Systems, Science & Technology
- g. The Scientific World Journal, International Journal of Antennas and Propagation
- h. International Journal of Online Engineering (iJOE)
- i. Journal of the Institute of Industrial Applications Engineers
- j. ICSES Transactions on Computer Networks and Communications (ITCNC)
- k. International Journal of Data Mining and Engineering Technologies
- l. International Journal of Internet of Things and Cyber Assurance
- m. International Journal of Internet of Things and its Applications
- n. International Journal of Soft Computing Applications
- o. Independent Journal of Management & Production (IJM&P)
- p. International Journal of Modern Computer Science

Till now, *I did review more than 8000 papers* in Elsevier, IEE, MDPI, EDAS, EasyChair, plus other peer reviewed Journals and IEEE/ACM Conferences.

Teaching and Student Supervision

Undergraduate Advisor - total number of undergraduate BSc students (20)

MSc Supervisor - Six (20) MSc students:

Mentor & PhD Supervisor – Three (3) PhD Candidates

- a) On September 29th, 2013, I was appointed by Professor Pavel Ripka, Dean of Faculty of Electrical Engineering from Czech Technical University in Prague to serve as PhD Thesis Advisor-Expert to Mr. Jakub Dolezal, MSc, PhD Candidate – *The Unified Architecture for Energy-and Network-Constrained Sensor Networks*
- b) On September 23rd, 2013, I was appointed by Professor Simeon Karamazov, Dean of Faculty of Electrical Engineering and Informatics, at the University of Pardubice to serve as PhD Thesis Co-Supervisor to two PhD students:
 - 1. Mr. Thomas Shejbal - *The air traffic control and the radar function at Air Traffic Control (ATC)*
 - 2. Mr. Zalabsky - *FMCW radar for helicopter anti-collision system*

Note, these were military projects and PhD Thesis related material is confidential.

Mentor and PhD Thesis Examiner:

- a) **Mentor** to Dr. Gurjot Singh Gaba, Postdoctoral Researcher in Cyber Security Linköping, Ostergotland County, Sweden - <https://orcid.org/0000-0002-0732-1478> & <https://liu.se/en/employee/gursi17>
- b) PhD Thesis Examiner to Dr. RAJASEKARAN M., Thesis Title: “*ADAPTIVE SECURE ROUTING ALGORITHMS USING INTELLIGENT APPROACHES IN WIRELESS SENSOR NETWORKS*”
- c) PhD Thesis Examination to Thesis Title: “DESIGN AND DEVELOPMENT OF AN INNOVATIVE ADVERSARIAL NETWORK OUTLIER PREDICTION AND SEQUENTIAL DATA ANALYSIS USING HYBRID OPTIMIZED NEURAL NETWORK”
- d) **PhD Thesis Examiner** to Dr. Ambika D R, Thesis Title: ‘*PERIOPULAR BIOMETRIC AUTHENTICATION SYSTEM*’ Department of Information science Engineering, BMS College of Engineering, Bengaluru, India <https://bmsce.ac.in/home/facultyProfile/290/AMBIKA-K>
- e) **PhD Thesis Examiner** to Rajasekaran, M, PhD Candidate, Thesis Title: Adaptive Secure Routing Algorithms Using Intelligent Approaches in Wireless Sensor Networks, Department of Computer Science and Engineering, Faculty of Engineering and Technology, Annamalai University, Annamalai Nagar – 608 002, Tamilnadu, India
- f) **PhD Thesis Examiner** to Chigurupati Ravi Swaroop, PhD Candidate, Thesis Title: Design and Development of an Innovative Adversarial Network Outlier Prediction and Sequential Data Analysis Using Hybrid Optimized Neural Network a Synopsis, Department of Information Technology, Faculty of Engineering and Technology, Annamalai University, Annamalai Nagar – 608 002, Tamilnadu, India
- g) **PhD Thesis Examiner** in progress to Dr Sandeep Kumar, Assistant Professor Electronics & Communication Engineering Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore - <https://svvv.irins.org/profile/178978>

Postdoctoral Sponsor(s) - (1)

Dr. Ruchi Sachan, Sungkyunkwan University, Korea, & three other Candidates expressed their interest in working with me

Publications:

Twenty (20) books published and one (1) in progress , seven (7) Edited Books (Special Issues) plus one (1) in progress, twenty (20) Book Chapters plus two (2) in progress, fourteen (40) peer reviewed journal papers, plus 2 in progress, one (1) AI Blog Article, one (1) Research Topic, and one (2) Special Issues. I've presented one hundred and sixty one (161) Conference Papers, including Plenary, Keynote, TP, and over 100 invited Colloquial Talks worldwide.

Twenty (21) books plus one (1) in progress:

- 1) Babulak, E. (Ed.). (2026). Quantum Enhancements to the AI Industry. IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-2600-0156-1>
- 2) Babulak, E. (Ed.). (2026). AI-Driven Cybersecurity Systems, Applications, and Resilient Infrastructure. IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-2600-1608-4>
- 3) Babulak, E. (Ed.). (2026). The Rise of Explainable and Generative AI-Driven Cyber and Information Security. IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-3373-7852-7>
- 4) Babulak, E. (Ed.). (2026). Applied AI and Blockchain in Global Real Estate. IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-3373-7001-9>
- 5) Babulak, E. (Ed.). (2026). Advancing Energy Production and Distribution With Blockchain and AI. IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-3373-6996-9>
- 6) Kumar, S.N., Zafar, S., S, A., Naaz, S., Beg, M.M.S., & Babulak, E. (Eds.). (2025). Smart Agriculture for Sustainable Practices: The Role of AI, IoT, and Machine Learning (1st ed.). Chapman and Hall/CRC. <https://doi.org/10.1201/9781003594093>
- 7) Babulak, E. (Ed.). (2026). The Social Impact of Next-Generation Smart Cyber Technology. IGI Global Scientific Publishing, published. <https://doi.org/10.4018/979-8-3373-5656-3>
- 8) Babulak, E. (Ed.). (2026). Climate-Resistant Smart Agriculture for Healthy Food Production. IGI Global Scientific Publishing, published. <https://doi.org/10.4018/979-8-3373-4827-8>
- 9) Babulak, E. (Ed.). (2026). AI-Driven Approaches for Fully Automated Smart Engineering. IGI Global Scientific Publishing, published. <https://doi.org/10.4018/979-8-3373-4839-1>
- 10) Babulak, E. (Ed.). (2025). Educational AI Humanoid Computing Devices for Cyber Nomads. IGI Global Scientific Publishing, published. <https://doi.org/10.4018/979-8-3693-8985-0>
- 11) Babulak, E. (Ed.). (2024). Applied AI and Humanoid Robotics for the Ultra-Smart Cyberspace. IGI Global Scientific Publishing, published. <https://doi.org/10.4018/979-8-3693-2399-1>
- 12) Babulak, E. (Ed.). (2023). AI Tools for Protecting and Preventing Sophisticated Cyber Attacks. IGI Global Scientific Publishing, published. <https://doi.org/10.4018/978-1-6684-7110-4>
- 13) Ashish Bagwari, Jorge Luis Victoria Barbosa, Eduard Babulak, Durg Singh Chauhan: “*Emerging Wireless Technologies and Sciences*”, Second International Conference, ICEWTS 2024, Uttarakhand, India, October 6–7, 2024, Proceedings, Part of the book series: Communications in Computer and Information Science (CCIS, volume 2399), Publisher Springer Cham, Softcover ISBN 978-3-031-87885-5, Series ISSN 1865-0929, Series E-ISSN 1865-0937, 26 April 2025, published. <https://link.springer.com/book/9783031878855>
- 14) Eduard Babulak: “*Advances in Digital Transformation - Rise of Ultra-Smart Fully Automated Cyberspace*”, published on July 17th 2024, IntechOpen, London, UK - <https://www.intechopen.com/books/1002603>
- 15) S. N. Kumar, Sherin Zafar, Eduard Babulak, M. Afshar Alam, Farheen Siddiqui, “Artificial Intelligence in Telemedicine: Processing of Biosignals and Medical images”, 529949- IMVRA Series, 1st edition, published in August 2023, CRC Press, DOI: 10.1201/9781003307778, Pages: 282, eBook ISBN9781003307778 (<https://www.taylorfrancis.com/books/edit/10.1201/9781003307778/artificial-intelligence-telemedicine-kumar-sherin-zafar-eduard-babulak-afshar-alam-farheen-siddiqui>)
- 16) Eduard Babulak, “*Chatbots - The AI-driven Customer Front-line Services*”, IntechOpen, DOI 10.5772/intechopen.104076, published September 13th, 2023 <https://www.intechopen.com/books/12069>
- 17) Eduard Babulak, “*Malware - Detection and Defense*”, published, February 15th, 2023, IntechOpen, DOI10.5772/intechopen.105262, [Malware - Detection and Defense | IntechOpen](https://www.intechopen.com/books/11196)
- 18) Eduard Babulak, “*New Updates in E-Learning*”, ISBN: 978-1-80355-418-1, Published May 18th, 2022, DOI10.5772/intechopen.97987, published on May 18th, 2022, ISBN 978-1-80355-418-1, PRINT ISBN 978-1-80355-417-4, Pages: 190, IntechOpen, <https://www.intechopen.com/books/11196>
- 19) Lewoc, J.B., Babulak, E., Al-Dabass, D., “*ICT Performance and Robustness Investigations: Some Ethical and Human Behavior Aspects*”, ISBN: 978-1-53614-916-6, Pages: 300, Nova Publisher 2019, <https://novapublishers.com/shop/ict-performance-and-robustness-investigations-some-ethical-and-human-behavior-aspects/>

- 20) Eduard Babulak: “*Methodology to Assess the User's Perception of Quality of Service*”, Lambert Academic Publishing., pages 328, ISBN: 978-3-659-25625-7, 28th April 2015, Saarbrücken, Germany
<https://www.morebooks.de/store/gb/book/methodology-to-assess-the-user-s-perception-of-quality-of-service/isbn/978-3-659-25625-7>
- 21) Eduard Babulak, “*Quality of Service in Information Technology*”, Lambert Academic Publishing, pages 132, ISBN: 978-3-659-68902-4, 1st April, 2015, Saarbrücken, Germany
<https://www.morebooks.de/store/gb/book/quality-of-service-in-information-technology/isbn/978-3-659-68902-4>
- 22) New book in progress

Seven (7) Edited Books (Special Issues) plus one (1) in progress:

- 1) *Fifth International Conference on Computational Intelligence, Modelling and Simulations (CIMSIm2013)*, pages 411, DOI:10.1109/CIMSIm.2013.78, ISBN 978-0-7695-5155-5, ISSN 2166-8531, Seoul, South Korea, 24-25 September 2013, IEEE Computer Society <http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?reload=true&punumber=6656125>
- 2) *The International Journal of system, Science & Technology: Special Issue on Performance Engineering*, Volume 10, Number 1, pages 59, DOI:10.13140/RG.2.1.2635.6249, ISSN 1473- 8031 Print, ISSN 1473-804x Online, January 2009, UK Simulation Society <http://ijsst.info/Vol-10/No-1/cover-10-1.htm>
- 3) *The International Journal of system, Science & Technology: Special Issue on Internet and Web Technologies*, Volume 10, Number 2, pages 78, DOI:10.13140/RG.2.1.3585.8963, ISSN 1473- 8031 Print, ISSN 1473-804x Online, February 2009, UK Simulation Society <http://ijsst.info/Vol-10/No-2/cover-10-2.htm>
- 4) *The International Journal of Continuing Engineering Education and Life-Long Learning (IJCEELL): Special Issue on Learning as a Ubiquitous and Continuous Communication Attitude*, Special Issue 4 Volume 18, 2008, pages 129, DOI:10.1504/IJCEELL.2008.019639
<http://www.inderscience.com/browse/index.php?journalID=6&year=2008&vol=18&issue=4>
- 5) Research Topic on: *Cyber Security Prevention, Defenses Driven by AI, and Mathematical Modelling and Simulation Tools*– Frontiers in Computer Science, September 21st, 2025, London, UK [Cyber Security Prevention, Defenses Driven by AI, and Mathematical Modelling and Simulation Tools | Frontiers Research Topic](#)
- 6) Special Issue on: *Applied AI in Cyber Security* , August 18, 2023, [Open Science Journals | IntechOpen](#)
- 7) A special issue of Applied Sciences (ISSN 2076-3417) title: “*Metamaterials, Quantum and Nanophotonics in the Third Millennium*”, this special issue belongs to the section “*Applied Physics*”, MDPI Publisher, St. Alban-Anlage 66, 4052 Basel, Switzerland https://www.mdpi.com/journal/applsci/special_issues/7RT8FA2L95
- 8) Special Issue of Applied Sciences (ISSN 2076-3417) titled: „*Advancing Sustainable Energy Through Quantum Material Innovation*“, this special issue belongs to the section “*Applied Physics*”, in progress MDPI Publisher, St. Alban-Anlage 66, 4052 Basel, Switzerland https://www.mdpi.com/journal/applsci/special_issues/GYMH6O3MJB

Twenty (20) Book Chapters, plus two (2) in progress:

- 1) Duggirala Aravind, Eduard Babulak, Suresh N V, Chapter 9 “Next-Generation AI Security through Generative Model Hardening, Red-Team Automation and Autonomous Threat Response”. In *The Rise of Explainable and Generative AI-Driven Cyber and Information Security*.(2026) IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-3373-7852-7.ch009>
- 2) Ali Biglarifadafan, Eduard Babulak, Chapter 8, “Integrating Multi-Hazard Early Warning Systems With AI-Enhanced Structural Health Monitoring Dynamics for Sustainable Rehabilitation”. In *Building Resilience Through Multi-Hazard Early Warning Systems*. (2026) IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-3373-7345-4.ch008>
- 3) Dharmender Salian, Solomon Antony, Rabih Neochi, Gasan Elkhodari, Steven Brown, and Eduard Babulak (2026). “Comparison of Generative AI Platforms in Secondary Education: An Application Using the Task-Technology Fit Model”, Springer Nature Switzerland AG 2026 M.E.Auer, S.A.Nikou(eds.), GenAI in Novel *Educational Applications*., https://doi.org/10.1007/978-3-032-16153-6_1 accepted to be published.
- 4) Salian, D. T., Elkhodari, G., Neochi, R., Brown, S., Babulak, E., & Sbeit, R. (2026). “A New Approach to Improving Natural Language Processing Capabilities Using Generative AI: A Systematic Review and Future Perspectives”. In E. Babulak (Ed.), *The Social Impact of Next-Generation Smart Cyber Technology* (pp. 139-172). IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-3373-5656-3.ch005>

- 5) Babulak, Eduard, et al. "Smart IoT-Based Framework for Real-Time Food Adulteration Detection Towards Healthy Living." *Climate-Resistant Smart Agriculture for Healthy Food Production*, edited by Eduard Babulak, IGI Global Scientific Publishing, 2026, pp. 107-132. <https://doi.org/10.4018/979-8-3373-4827-8.ch004>
- 6) Babulak, E., Kumar, A., Guru, D., Kudithipudi, K., Maddini, S., Gonaygunta, H., & Nadella, S. (2026). Human-Centric AI Tools Into Agile Methodologies for Optimized Software Development. In E. Babulak (Ed.), *AI-Driven Approaches for Fully Automated Smart Engineering* (pp. 41-84). IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-3373-4839-1.ch002>
- 7) Polampally, S. K., Nadella, G. S., Ragunayakula, S., Kumar, V. J., Kankala, S., & Babulak, E. (2026). "AI-Driven Automation in Agile Software Development Teams Enhancing Efficiency and Collaboration". In E. Babulak (Ed.), *g* (pp. 85-132). IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-3373-4839-1.ch003>
- 8) Kommers, Piet, and Eduard Babulak. "Conceptual Awareness for Human Navigation in A.I." In *Educational AI Humanoid Computing Devices for Cyber Nomads*, edited by Eduard Babulak, 1-14, IGI Global, Hershey, PA, April 11, 2025, doi: 10.4018/979-8-3693-8985-0.ch001 .
- 9) S. N. Kumar, J. Joy, I. C. Jane, A. James, S. John, and E. Babulak, "Applications of 6G in the healthcare sector and the importance of network security and data privacy-encryption of medical images using the SHA 256 blockchain algorithm," Jan. 2025, doi: [10.1201/9781003583127-9](https://doi.org/10.1201/9781003583127-9)
- 10) Antony, L.T., Kumar, S.N., Babulak, E. (2024), "Medical Image Watermarking Employing Discrete Wavelet Transform—HD—SVD Techniques". In: Alam, M.A., Siddiqui, F., Zafar, S., Hussain, I. (eds) Proceedings of 4th International Conference on ICT for Digital, Smart, and Sustainable Development. ICIDSSD 2024. Innovations in Sustainable Technologies and Computing. Springer, Singapore. https://doi.org/10.1007/978-981-97-7831-7_30
- 11) Babulak, E. (2023). Introductory Chapter: Journey to AI Driven Chatbots. IntechOpen. doi: [10.5772/intechopen.112461](https://doi.org/10.5772/intechopen.112461)
- 12) Chapter 12: A Generic Method for the Reliable Calculation of Large-Scale Fading in an Obstacle-Dense Propagation Environment, Theofilos Chrysikos, Stavros Kotsopoulos, Eduard Babulak. Publisher: IGI Global, Pages 256-277, DOI: [10.4018/978-1-4666-2208-1.ch012](https://doi.org/10.4018/978-1-4666-2208-1.ch012), ISBN: [9781466622081](https://www.isbn-international.org/product/9781466622081) Source: Integrated Models for Information Communication Systems and Networks: Design and Development (2013)
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- 114) Eduard Babulak, Panel Speaker on “How Technology is Transforming Our Lives” for “ International Conference on Computer, Cybernetics and Education (ICCCE-23)” which is going to be held on 23rd and 24th of Jakarta at Jakarta, Indonesia
- 113) Eduard Babulak, Invited Speaker, International Meet on Power Electronics and Applications will be held in Valencia, Spain during APRIL 17-19, 2023.
- 112) Eduard Babulak, Coconference Co-Chair and Keynote Speaker for the SW-RITA2023, Global Meet on the Robot Intelligent Technology and Applications, October 25th, 2023 - <https://www.sciencewidemeetings.com/robot-tech/>
- 2022)
- 111) Eduard Babulak, Honorary Chair, 2022 5th International Joint Conference on Computer Vision and Pattern Recognition (CCVPR 2022) will be held in Kuala Lumpur, Malaysia on December 9-11, 2022.
- 110) Eduard Babulak, Keynote Speaker, the Artificial Intelligence and Knowledge Processing 2022 (AIKP'22), Woxsen University, India.
- 108) Eduard Babulak, Plenary Speaker, Applied Science, Engineering, & Technology MAY 25-26, 2022, Munich, Germany.
- 108) Eduard Babulak, Keynote Speaker, 2nd Edition of Robot Intelligence Technology and Applications - Webinar, 21-22 October 2022
- 107) Eduard Babulak, Keynote, Online Game Systems - A Networking Perspective, the 11th IEEE International Conference on Communication Systems and Network Technologies (CSNT-2022), 23-24 April 2022, MIR Labs, India
- 106) Eduard Babulak, Featured Speaker, 4th Global Conference and Expo on Materials Science & Engineering (ISTMSE-2022), which will be held during May 25-26, 2022.
- 105) Sandeep Sancheti, Eduard Babulak, Education 4.0 - Open and Student Centric Learning, the Learning Ideas Conference 2022, Education 4.0 - Open and Student Centric Learning, 2022, USA
- 104) Eduard Babulak, Plenary Speaker, the International Conference on Robotics and Artificial Intelligence (ICRAI – 2022), September 14-16, 2022 in Singapore
- 103) Eduard Babulak, Plenary Speaker, Global Conference on Manufacture and Industrial Engineering August 11-13, 2022, Berlin, Germany
- 102) Eduard Babulak, Keynote Speaker & Organizing Committee Member, 2nd Global Meet on Optoelectronics & Quantum Physics Optoelectronics-2022, Miami, USA on September 19-20, 2022
- 101) Eduard Babulak, Keynote Speaker, The 2022 3rd International Conference on Information Technology, Advanced Mechanical and Electrical Engineering (ICITAMEE), Universitas Muhammadiyah Yogyakarta, Indonesia, 20-21 July 2022
- 100) Eduard Babulak, Keynote Speaker, the 2nd Global Experts Meet on Applied Science, Engineering and Technology, Paris, France, | 14 – 16 October 2022
- 99) Eduard Babulak, Honorary Chair and Renowned Speaker, the 2021 Annual Global Congress of Knowledge Economy (GCKE2021), April 14, 2022, Maccao, China
- 2021)
- 98) Eduard Babulak, Plenary Speaker: the Global Summit and Expo on "Robot Intelligence Technology and Applications (GSERITA2021)", on September 06-08, 2021 [Speakers | Robot Intelligence Technology and Applications Conference | GSERITA2021 | Plenary Speakers | Keynote Speakers | Lisbon | Portugal \(thescientistt.com\)](#)
- 97) Eduard Babulak, Keynote Speaker, DTI2021 Digital Twins as the Basis for Digital Transformation of Business Models in Industry, Russia, October 29, 2021
- 96) Eduard Babulak, Honorary Chair and Keynote Speaker, The 7th Annual Global Congress of Knowledge Economy-2021 (GCKE-2021), which will be held during August 18-20, 2021 in Seoul, South Korea.

- 95) Eduard Babulak, Plenary Speaker, International Conference and Expo on Nanotechnology and Nanomaterials (Nanotech-2021), which will be held during September 16-18, 2021 Brussels, Belgium
- 94) Eduard Babulak, Plenary Speaker, 3rd World Conference on Robotics and Artificial Intelligence (Robotics-2021), Saint Petersburg, Russia during June 24-26, 2021
- 2020)
- 93) Eduard Babulak, Plenary Speaker, 3rd World conference on Robotics and Artificial intelligence 2020, Scientific Federation, St Petersburg, Russia, June 18-19, 2020
- 92) EuroSciCon Conference on Robotics & Automation Theme: DRIVING THE FUTURE WITH AUTOMATION, ROBOTICS & DATA ANALYTICS, October 12-13, 2020, Barcelona, Spain
- 2019)
- 91) C. Bucur and E. Babulak, "Security validation testing environment in the cloud," 2019 IEEE International Conference on Big Data (Big Data), Los Angeles, CA, USA, 2019, pp. 4240-4247, doi: 10.1109/BigData47090.2019.9006202.
- 90) A. Jhingan, L. Kansal, G. S. Gaba, E. Babulak and M. Mounir, "BER assessment of OFDM system augmented with MRC technique under the effect of CFO," 2019 International Conference on Automation, Computational and Technology Management (ICACTM), London, United Kingdom, 2019, pp. 46-51, doi: 10.1109/ICACTM.2019.8776821.
- 89) Eduard Babulak, Cyber Security & Future Networks Operation, Conference: the 2nd Systems of Assessments for Computational Thinking Learning workshop at EC-TEL 2019, September 2019, Delft, Netherlands
- 2018)
- 88) Eduard Babulak, Keynote: Intelligent Computational Devices Tomorrow, April 2018 Conference: "5th International conference on Automation and Robotics, Las Vegas, US.
- 87) Eduard Babulak, Future Robotics and Automation for the Third Millennium, April 2018, Advances in Robotics and Automation 7(1) Conference: 5th International Conference on Automation and Robotics, Las Vegas, US.
- 86) Eduard Babulak, Keynote: Role of Computer Emergency Response Teams (CERTs) in the Future Cyberspace and Cyber Security, Conference: The 2018 DC Serious Play Conference at George Mason University, Hylton Performing Arts Center hosted by Virginia Serious Games Institute, July 2018
- 85) E. Babulak, Space Computing for the 3rd Millennium, International Conference on Astronomy, Astrophysics and Astrobiology, May 30-31, 2018 Osaka, Japan
- 2017)
- 84) Eduard Babulak: Future Cyberspace, Automation and Robotics, Keynote Address, 3rd World Congress on Automation and Robotics, June 28-29, 2017 San Diego, CA, USA
- 2016)
- 83) Eduard Babulak: The 21st Century Industrial Logisitcs & Cyberspace, Conference: LOGI 2016 - 17th International Scientific Conference, published in, At College of Logistics in Přerov, Volume: Acta Logistica Moravica, pages 8-13, Edited by Zdenek Cujan and Ivan Gross, ISSN: 1804 - 8315
- 82) Mehran Alidoost Nia, Eduard Babulak, Reza Ebrahimi Atani, Benjamin Fabian: An Analytic Perspective to Traffic Engineering in Anonymous Communications Systems, Progress in Computer Sciences and Information Technology International Conference (PROCSIT 2016 <https://procsit.com/>), Published.
- 81) Eduard Babulak: Automation and Robotics for Sustainable Future, Plenary Address, 2nd World Congress on Automation and Robotics, June 13-15, 2016 Philadelphia, USA
- 80) Eduard Babulak: The Secure Manufacturing IT System, Keynote Address, 2nd World Congress on Automation and Robotics, June 13-15, 2016 Philadelphia, USA (<http://industrialautomation.conferenceseries.com/ocm/2016/eduard-babulak-mum-in-usa-transport-and-logistics-department-vste-czech-republic>)
- 79) Simona Haskova, Eduard Babulak, Marek Vochozka: Intellectual Capital Optimisation in Microeconomic Sphere, The 8 European Conference on Intellectual Capital (ECIC2016), 12 - 13 May 2016, Ca' Foscari University of Venice, Italy (<http://www.academic-conferences.org/conferences/ecic/>)
- 78) Eduard Babulak: The Secure Role Based Mission System (RBMS), Keynote Address, The 4th IIAE International Conference on Industrial Application Engineering 2016 (ICIAE2016), March 26-30, 2016 at B-Con Plaza, Beppu, Japan (<http://www2.ia-engineers.org/iciae2016/keynote-speakers/>)

- 77) Eduard Babulak: Cyber Security and Next Generation Cyberspace, Keynote Address, 2016 International Symposium on Dependable Integrated Systems, Kyushu Institute of Technology (KIT), 29 February 2016, Iizuka, Japan (<http://aries3a.cse.kyutech.ac.jp/~disc/en/en.html>)
- 76) Vargova M, Smetanova D, Babulak E: Visualization of Functions of Two Variables by Anaglyphs, accepted, 15th International Conference on Applied Mathematics (APLIMAT 2016), 2-4 February 2016, Bratislava, Slovakia (<http://evlm.stuba.sk/APLIMAT/>)
- 2015)
- 75) Eduard Babulak: 21st Century Industrial Automation, Logistic & Cyberspace, Keynote Address, World Congress on Industrial Automation 2015, San Francisco, USA; 07/2015 (<http://industrialautomation.conferenceseries.com/speaker/2015/eduard-babulak-maharishi-university-of-management-usa>)
- 2014)
- 74) Eduard Babulak: Futuristic Computing & its Impact on Society: Today and Tomorrow, Invited Talk, Graduate Seminar, Maharishi University of Management; 11/2014 (<http://livestream.com/mum/futurecomputer>)
- 2013)
- 73) Eduard Babulak: Digital Broadcasting, Smart TV and Cyber Security Challenges, Keynote Address, The 9th International Forum of Digital TV and Wireless Multimedia Communication (9th IFTC), Shanghai, China; 11/2013 (<http://icc.skku.ac.kr/ice/eng/outstanding> & <http://www.siga.com.cn/iftc2012.htm>)
- 72) Eduard Babulak "Cyber Security for 21st Century Smart Cyberspace", Keynote Address, The CIMSIm2013 Symposium in Seoul, South Korea, Sept 25, 2013 (<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=6656125>)
- 71) Eduard Babulak: "Digital Broadcasting, Future Cyberspace and Cyber Security", Keynote Address, Microwave and Radio Electronics Week 2013 (MAREW 2013), April 16-18, 2013, Pardubice, Czech Republic (<http://www.marew.cz/speakers/babulak>)
- 2012)
- 70) Eduard Babulak: Cyber Security & Importance of CERTs, Keynote Address, SpringSIM 2012, Florida Hotel and Conference Center; Orlando, FL, USA, March 26 - 29, 2012, <http://scs.org/?q=node/320>
- 2011)
- 69) Eduard Babulak: Cyber Security & Future Networks Operations, Keynote Address, The eieCon2011 - First EIE International Conference on Computing, Energy, Networking & Telecommunication, September 14th, 2011, Ota, Nigeria: <https://sites.google.com/site/cueiecon/key-note-speakers>
- 68) Eduard Babulak: CERT, ICT and Cyber Security, Keynote Address, CICSyn 2011, The International Conference on Modelling and Simulation, July 26-28, 2011, Bali, Indonesia: (<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=6005193>)
- 67) Eduard Babulak: CERT, ICT and Cyber Security, Keynote Address, AMS2011, 23 May 2011, Kuala Lumpur, Malaysia (<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=5960723>)
- 66) Eduard Babulak: Cyberspace Security: Importance of CERTs (Computer Emergency Response Teams) Keynote Address, The UKSim - AMSS 13th International Conference on Modelling and Simulation, March 30th 2011, Cambridge University, UK: (<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=5752641>)
- 2010)
- 65) Eduard Babulak: Future Cyberspace and ICT Technologies, Invited Panelist at Jules Verne's corner: "make possible the impossible" event during the ITU Kaleidoscope academic conference in Pune, India, 13-15 Dec 2010. (<http://www.itu.int/ITU-T/uni/kaleidoscope/2010/julesverne.html>)
- 64) Eduard Babulak: Next Generation of ICT Business Applications, Invited Talk: The 3rd International ICST Conference on MOBILE Wireless, MiddleWare, Operating Systems, and Applications MOBILWARE2010, Chicago, USA, June 30 – July 1, 2010 (<http://www.mobilware.org/2010/techprog.shtml>)
- 63) Eduard Babulak: Future Transportation and Next Generation ICT, Keynote Address, 10th International Conference on Electromobility in Road Transport in 21st Century, Faculty of Transport, Czech Technical University in Prague, Apr 7th, 2010

- 62) Eduard Babulak: Global Cyberspace, Keynote Address, AMS2010: 4th Asia International Conference on Analytical Modelling & Computer Simulation, Kota Kinabalu, Borneo, 26-28 May 2010 (<http://uksim.info/ams2010/ams2010.htm#Sched>)
- 61) Eduard Babulak: Japan Pacific ICT Centre & ICT for Human Development & Security at USP Invited Paper, LINC 2010 - The Fifth Conference of Learning International Networks Consortium, May 23rd- 26th, 2010, MIT, Cambridge, Massachusetts, USA (<http://linc.mit.edu/linc2010/proceedings.html> & <http://linc.mit.edu/linc2010/parallel.html>)
- 60) Eduard Babulak: Future Global Office, Invited Paper: UKSim 12th International Conference on Computer Modelling and Simulation: 08(H) Human Factors, Social & Economic Sciences 24th-26th March 2010, Cambridge University (Emmanuel College), England (<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=5752641>)
- 59) Eduard Babulak: The ICT and Contemporary Pacific Market Economies, Opportunities and Challenges, Keynote Address: Symposium on Consumerism and Market Economies at Fiji National University, SUVA, March 31st, 2010
- 58) Eduard Babulak: WINDS & Japan Pacific ICT Centre, Invited Panelist: KIZUNA WINDS International Symposium, Tokyo, Japan, February 4th 2010 (http://global.jaxa.jp/press/2010/01/20100107_kizuna_e.pdf & http://www.jaxa.jp/press/2010/01/20100107_kizuna.pdf & http://global.jaxa.jp/press/2010/01/20100107_kizuna_e.html)
- 57) Eduard Babulak: Future Cyberspace, Keynote Address, ISMS2010: 1st International Conference on Intelligent Systems, Modelling and Simulation, 27th January 2009, Liverpool, UK (<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=5752641>)
- 56) Eduard Babulak: 21st Century Cyberspace, Keynote Paper, SAMI 2010: 8th International Symposium on Applied Machine Intelligence and Informatics, 28th January 2010 Herlany, Slovakia www.sami.tuke.sk/
- 2009)
- 55) Eduard Babulak: Japan Pacific ICT Centre and ICT Future Trends, Invited Talk, Yokohama National University, December 15th 2009, Yokohama, Japan (<http://www.ynu.ac.jp/english/>)
- 54) Eduard Babulak: Japan Pacific ICT Centre and ICT Future Trends, Invited Talk, University of Electro-communication, December 16th 2009, Tokyo, Japan (<http://www.uec.ac.jp/eng/>)
- 53) Eduard Babulak: Japan Pacific ICT Centre, Keynote Address, 1st PacCERT Stakeholder Meeting, held on 25th November 2009 in Nadi, Fiji (<http://unpan1.un.org/intradoc/groups/public/documents/UN-DPADM/UNPAN042345.pdf>)
- 52) Eduard Babulak: Teleworking and Next Generation Cyberspace, Invited Paper: CSSIM2009/EUROSIM: International Conference on Computational Intelligence Modeling and Simulations, Brno, Czech Republic, 7 – 9 September 2009, (<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=5349967>)
- 51) Eduard Babulak: Globalization and Future Education, Keynote Paper: The 7th International Conference on Emerging E-Learning Technologies and Applications, November 19th– 20th 2009, Stara Lesna, The High Tatras Slovakia (<http://www.iceta.sk/>)
- 50) Eduard Babulak: The Next Generation of IT & Education, Third International Conference on Internet Technologies and Applications (ITA 09) 8th-11th September 2009, Wrexham, North Wales, UK.
- 49) Eduard Babulak: Next Generation of Transportation and Information Technologies Invited Paper: EATIS 2009 - Euro American Conference on Telematics and Information Systems, Prague, Czech Republic on 3 - 5 June, 2009 (<http://www.telematika.cz/eatis2009/>)
- 48) Eduard Babulak: Future Cyberspace & 3D Telepresence Collaborative Environments, Keynote Address, AMS 2009 – Asian Modelling Symposium 2009, Bandung 25-26, 2009 (<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=5071934>)
- 47) Eduard Babulak: IT AGE & Society, Invited Talk, University of Economics in Prague, Czech Republic, May, 2009.
- 46) Eduard Babulak: IT AGE & Society, IEEE Invited Talk, Simon Fraser University, Vancouver, April 15, 2009 (<http://www2.ensc.sfu.ca/~ljilja/cnl/guests/babulak.html> & <http://vancouver.ieee.ca/CASS/Events.htm>)
- 45) Eduard Babulak: Next Generation of Applied Internet Technologies in E-Manufacturing, Invited Talk, The 11th International Conference on Computer Systems Modelling and Simulation (UKSIM 2009), March 25 – 27th, 2009, Emmanuel College, Cambridge, England (<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=5358680>)
- 44) Eduard Babulak: IT AGE and Future Trends, Keynote Address, The Fourth International Conference on Intelligent Computing and Information Systems, Cairo, Egypt, March 21, 2009 (<http://net2.shams.edu.eg/icicis/2015/>)
- 2008)
- 43) Eduard Babulak: Information Technologies in Transportation, The International Conference on Computer Blended Learning ICML, 24th -26th September 2008, Villach, Austria (<http://www.icl-conference.org/>)
- 42) Eduard Babulak: Future Transport and Internet Technologies, The International Workshop on Wireless and Mobile Security (WMS'08) collocated with the Second IEEE Conference on NEXT GENERATION MOBILE

- APPLICATIONS, SERVICE AND TECHNOLOGIES (NGMAST 2008), 17-18th September, 2008, Cardiff, Wales, UK (<http://www.comp.glam.ac.uk/NGMAST08/programme/WMS08programme.htm>)
- 41) Eduard Babulak: IT AGE and Future Education, Invited Talk, The 6th International Conference on Emerging E-Learning Technologies and Applications, September 11th – 13th 2008, Stara Lesna, The High Tatras Slovakia (<http://www.iceta.sk/>)
- 40) Eduard Babulak: Trends in Discrete Simulations and IT AGE and Globalization, Keynote Address, The European Modeling Symposium 2008 EMS2008, Liverpool, 8 – 10 September 2008, UK (<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=4625227>)
- 39) Eduard Babulak, Ming Wang: From Available-to-Promise (ATP) to Keep-the-Promise (KTP): An Industrial Case of the Business Intelligent System, Poster Session: The 5th International Conference on Remote Engineering and Virtual Instrumentation, held on June 22-23 2008 in Dusseldorf, Germany
- 38) Eduard Babulak, Ming Wang: Trends in Discrete Event Simulation, Session 02 at the 5th International Conference on Remote Engineering and Virtual Instrumentation, held on June 22-23 2008 in Dusseldorf, Germany
- 37) Eduard Babulak: Ubiquitous Internet and Future Workplace, Invited Talk, The International Conference on E-Learning in the Workplace 2008 (ICELW 2008), June 12-13, 2008 at Columbia University in New York, USA
- 36) Eduard Babulak: Quality of Service in Computer Networks, Invited Talk, Mateja Bela University, Banska Bystrica, Slovakia, 26th April, 2008.
- 35) Eduard Babulak: IT AGE, Invited Talk, University of Pardubice, Czech Republic, 22nd April, 2008.
- 34) Eduard Babulak: “Importance of Management Information Systems in Business”, Invited Talk, Fairleigh Dickinson University – Vancouver, February 2008.
- 33) Eduard Babulak: IT AGE and Globalization, Invited Talk, Vancouver IEEE section in British Columbia, Canada, 22nd January, 2008.
- 2007)
- 32) Eduard Babulak: IT AGE, Invited Talk, The IEEE Vancouver section, FDU-Vancouver, BC, Canada, December 22nd 2007.
- 31) Eduard Babulak: Information Technology for the 21st Century, Keynote Address, The 8th International Scientific Conference „Nové smery vo výrobných technológiách 2006“, Faculty of Manufacturing Technologies Technical University of Kosice with a seat in Prešov, 2006, Prešov, Slovak Republic, pp. 109 – 113, ISBN 80-8073-554-09.
- 30) Eduard Babulak: Future Internet and New Trends in Education, Keynote Address, the 3 Day International Conference on “Integration of Information Technology in Science Education” held at Eastern Mediterranean University, January 16 – 18, 2007, Gazimağusa, Turkish Republic of Northern Cyprus.
- 2006)
- 29) Eduard Babulak: Ubiquitous Internet and Future Education, Graz Technical University, Guest Lecture on E-Learning, Institut für Breitbandkommunikation - Department of Wideband Communications‘ Research Seminar, Graz Technical University, Graz, Austria, December 5th 2006
- 28) Eduard Babulak: Ubiquitous Internet and Future Education, Keynote Address, The 2nd International Conference on New Trends in Education NTEC 2006, the American University Girne - Cyprus, PO Box 5, Karmi Kampus, Karaoglanoglu, Kyrenia/North Cyprus via Mersin /10, Turkey, November 10th 2006.
- 27) Eduard Babulak: Ubiquitous Communications in Support of Automation, Special Talk, Texas A&M University-Texarkana in Texarkana, Texas USA, November 6th 2006
- 26) Eduard Babulak: Ubiquitous Internet and House Automations, Plenary Talk, the IEEE International Conference on Telecommunications Systems, Modeling and Analysis 2006 ICTSM2006, October 4-8. Reading, Pennsylvania, USA
- 25) Eduard Babulak: Pervasive and Future Computing Domain, Plenary Talk, the International Conference on Signals and Electronics Systems (ICES 2006), 17-20 September 2006, Lodz, Poland
- 24) Eduard Babulak: Ubiquitous Communications Infrastructures for Future Transport Technologies, 4th International Scientific Conference on Transport and Communications, section 15, September 14 – 15th 2006 in Pardubice, Czech Republic
- 23) Eduard Babulak: Ubiquitous Communications Technologies in Support of Automation, IEEE/IEE International Conference Poster Sessions Presentations, Fifth International Symposium on Communications Systems, Networks and Digital Signal Processing (CSNDSP 2006), 19-21 July 2006, ISBN 960-89282-0-6, pages 809-812, Patras University Conference Centre, Patras, Greece
- 22) Eduard Babulak: Automated Smart House via Ubiquitous Computing, International Conference on Interactive Mobile and Computer Aided Learning (ICML 2006), held on April 19-21, 2006 in Amman, Jordan
- 2005)

- 21) Eduard Babulak: Next Generation of Internet and Telecommunications Technologies for Fully-Automated Information Cyberspace, Keynote Address, The 7th International Scientific Conference on New Trends in Technology Systems Operation, 20th – 21st October, 2005 in Presov, Slovakia
- 20) Eduard Babulak: Methodology to Assess the Quality of Service Provision in Telecommunications and Data Networks Infrastructures, International Wireless Summit 2005, Aalborg on September 17-22nd 2005
- 19) Eduard Babulak: Automated Environment via Information Cyberspace, Special Talk, the International Conference on Applied Computing IADIS 2005, Algarve, Portugal, Feb 22-25, 2005
- 18) Eduard Babulak: „Quality of Service Provision for the Modern Telecommunications Infrastructures in Transport and Industrial Logistics Solutions”, Keynote Address, The International Conference on Logistics LOGI 2005, February 15-16, 2005, Pardubice, Czech Republic

2004)

- 17) Eduard Babulak: Quality of Service and Future Directions in Ubiquitous Computing, Keynote Address in French language (Qualité du Service et Directions Future en Informatique Omniprésente), during the Colloque sur les télécommunications at University of Quebec Conference on 24 November 2004 in Rimouski, Canada.
- 16) Eduard Babulak: E-Manufacturing for 21st Century, State-of-the-Art and Future Directions, Keynote Address, the First International Conference on Management of Manufacturing Systems presentation, Presov, Slovakia, November 18th – 19th, 2004
- 15) E. Babulak, "Traffic bottleneck analysis in telecommunications infrastructures," SympoTIC '04. Joint 1st Workshop on Mobile Future & Symposium on Trends In Communications (IEEE Cat. No.04EX877), Bratislava, Slovakia, 2004, pp. 154-157, doi: 10.1109/TIC.2004.1409522.
- 14) Eduard Babulak: Quality of Service Provision Assessment in the Healthcare Information and Telecommunications Infrastructures, NEXWAY Workshop on the Prospects of Personal Wireless Communications (PP WC-04) organized by the Network of Excellence NEXWay and the Warsaw University of Technology and National Institute of Telecommunications, June 18th 2004 in Warsaw, Poland
- 13) Eduard Babulak: Quality of Service Provision Assessment in the Healthcare Information and Telecommunications Infrastructures, The EFMI Symposium on Electronic Health Record, Healthcare Registers and Telemedicine, the International Meeting EuroMISE 2004 in April 12-15, 2004, Prague, Czech Republic

2003)

- 12) Eduard Babulak: User's Perception of Quality of Service Provision, Invited Talk, The ICIT'03 International Conference on Industrial Technology, Maribor, Slovenia, on December 10-12, 2003
- 11) Eduard Babulak: Methodology to Assess the Quality of Service Provision in Data & Telecommunications Infrastructures, Invited Talk, Department of Telecommunications Engineering's Research Seminar, November 19th, 2003, Czech Technical University in Prague, Czech Republic
- 10) E. Babulak, "Quality of service provision assessment for campus network," SympoTIC'03. Joint 1st Workshop on Mobile Future and Symposium on Trends in Communications, Bratislava, Slovakia, 2003, pp. 75-78, doi: 10.1109/TIC.2003.1249093
- 9) Eduard Babulak: University Network Quality of Service Provision Assessment Strategies, 10th International Workshop on Systems, Signals, and Image Processing IWSSIP'03, September 10-11, 2003, Czech Technical University in Prague, Czech Republic
- 8) Eduard Babulak: Methodology to Assess the User's Perception of Quality of Service, Invited Talk, The Department of Telecommunications Engineering's Research Seminar at Czech Technical University in Prague, Czech Republic, March 18th, 2003

2002)

- 7) Eduard Babulak, Rolando A Carrasco: The IT Network Quality of Service Provision Analysis in light of the User's Perceptions and Expectations, IEEE/IEE Communications Systems, Networks and Digital Processing Symposium, 15th -17th July 2002, Stafford, UK.

2001)

- 6) Eduard Babulak: Quality of Service Provision for Distributed Multimedia via Trading Agent, in track 9: Software Technology in mini-track on the Quality of Service in Mobile Computing, Chaired by Dr. Jochen H. Schiller at the 34th Annual Hawaii International Conference on System Sciences (HICSS-34), January 3 - 6 2001, Maui, Hawaii

2000)

- 5) Eduard Babulak: Trader's Quality of Service Specifications and Effects on System Performance for Video-on-Demand, 2000 IEEE International Conference on Multimedia and Expo (ICME 2000) Volume 2, 30th July – 2nd Aug. 2000, pages 837 - 842, QoS (Traffic Management/Protocol) I, 30 July – 2 August 2000 NY, USA
- 4) Eduard Babulak: Session Mobility and Quality of Service Specifications for Distributed Multimedia Applications, in Session 5B on Performance Optimisation at the Convergence of Telecommunications, Networking and Broadcasting (PGNet), in Liverpool, UK, 19-20 June 2000
- 3) Eduard Babulak: CORBA QoS Control Stream Architecture, First IEEE Electro/Information Technology Conference, paper code EIT 519, on Friday, June 9, 2000 in Chicago, USA
- 2) Eduard Babulak: Session Mobility and Quality of Service Specifications for Distributed Multimedia Applications, International Working Conference and Industrial Expo on New Advances and Emerging Trends in Next Generation Enterprises (AIWoRC'00), in Business Theme Track 12 on: OTHER NG TECHNOLOGY FRONTIERS, April 27-29, 2000 Buffalo, NY, USA
- 1997)
- 1) Eduard Babulak: Mapping of CORBA to TINA Architecture, Poster Sessions Presentations: IEEE Conference McMaster University Conference for PhD Students 1997, September 1997, Hamilton, Ontario, Canada.

Technical Project Reports:

- 1) Project Director: Director of Japan Pacific ICT Centre:** The Centre will benefit all USP community and contribute towards the USP positive sustainable development for all regional member states for many years to come. The Japan Pacific ICT Centre is a new concept/platform that will embrace and contribute to all USP community, while becoming the Pacific Centre of Excellence for Academia, Research-Graduate-Postgraduate Studies and Sustainable Development and Economic Growth, November 2009, USP, Suva, Fiji.
- 2) University of the South Pacific Network (USPNet) Report,** Advice the Vice-Chancellor (VC) on the current state of the USPNet – Satellite Gilat -VSAT System, its current QoS Provision and possible performance improvements. October 15th – 29th 2009, USP, Suva, Fiji;
- 3) Report on Governance of the Head of School of Computing, Information and Mathematical Sciences (SCIMS):** Create a Centre of Excellence for Research, Innovation, Development with teaching and academic rigor, high ethical and professional standards. To make sure that we accomplish all these challenges successfully, in the process of transition it is important to make sure that the school finances and budget are in proper order and made public to all USP community.
- 4) Report on Capacity Building and ICT Policy, Regulatory and Legislative Framework Support for PICS:** Proposal to get ITU sponsorship for the ICT project. The project aims to set up a framework on how PICS can create ICT-related policies and legislations. USP aim, as an educational institution, is to create Post Graduate programs on ICT Policy, Regulations and Legislations, to be developed in the new USP ICT Center. Establishing the Computer Security Unit at USP ICT Center called the **PACCERT**. The unit modeled after AUSTCERT, the Australian Government arm against cyber-attacks. AUSTCERT is a computer emergency response team, providing a coordination role for handling computer security incidents between affected parties for the benefit of Australian networks, and help to detect, interpret and respond to computer network attacks.