Title: Third Millennium Mechatronics, Smart Robotics & Automation

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Abstract

In support of Mechatronics and Smart Robotics, the telecommunications networks providers and SCDs developers, are working together to create much faster transmission channels with provision of higher quality of service for any multimedia content for anyone, anywhere at any time. The Human Machine Interface with high definition audio and video, facilitates seamless control of Smart Robotics & Computational Devices (SRCD), which are becoming a common technology in family homes, business, academic, and business, and industry worldwide. Today, SRCD are communicating via Robotic Internet and may be accessible to public and private customers, while storing important and to some extend confidential information in their memory. In case that SRCD may be lost, stolen or hacked into, the information stored in the memory could be abused, compromised or used for malicious purposes. In near coming future we may see the SRDC be used to aid, or to protect family residential areas, private homes, schools, hospitals, manufacturing plants, as well as, Cyber Physical Critical Infrastructures (CPCI) such as, atomic power and chemical plants, and large cities. The further research, innovation and development of Future Ultra-SRCD side by side with Future Ultrafast Robotic Internet, will require even more research, innovation and development in the field of Cyber Assurance and Security. Proper Safety and Security mechanisms and policies will become critical to protect the SRCD and CPCI from any form of intrusion or cyber threads from anyone, from anywhere at any time. The author discusses the current and future trends of research, innovation and developments in Mechatronics, SRCD, CPCI and Cyber Assurance, in conjunction with the Future Ultra-Fast Internet and Ultra-SRCD. The author promotes creation of multidisciplinary multinational research teams and development of Next Generation SRCD and Fully Automated Environment while utilizing Ultra-Smart Robotic & Computational Devices, in conjunction with the critical Cyber Safety and Assurance challenges for today and for tomorrow.

Recent Publications

1. Babulak, E (2018) Future ICT, AI, Computing and IoT in Support of Microbiology and Infectious Diseases Treatment, June 2018, Diagnostic Microbiology and Infectious Disease 1(4):1-2
2. Babulak, E (2018) Bio-Informatics & Bio-Statistics for the Third Millennium, Open Access Biostatistics and Bioinformatics, Crimson Publishers, pages 1-2.
3. Babulak, E (2018) Brief Introduction Future Challenges of Bio-Technology and Bio-Computing, Advances in Biotechnology & Microbiology, Juniper Publishers, pages 1-2.
4. Mehran Alidoost Nia, Eduard Babulak, Reza Ebrahimi Atani, Benjamin Fabian (2017) An Analytic Perspective to Traffic Engineering in Anonymous Communications Systems, Progress in Computer Sciences and Information Technology International Conference PROCSIT 2016, pages 1-6.
5. Babulak, E (2017) Cyber Security Solutions and Challenges in Ultrafast Internet Connecting Ultra-Smart Computational Devices, ICSES Transactions on Computer Networks and Communications (ITCNC), pages 1-2.
6. Mehran Alidoost Nia, Reza Ebrahimi Atani, Benjamin Fabian and Eduard Babulak (2016) On Detecting Unidentified Network Traffic Using Pattern-based Random Walk, Security and Communication Networks, pages 3509-3526.



Biography

Prof Babulak is accomplished international scholar, researcher, consultant, educator, professional engineer and polyglot, with more than thirty years of experience. He served as successfully published and his research was cited by scholars all over the world. He was Invited Speaker at the University of Cambridge, MIT, Purdue University, Yokohama National University and University of Electro Communications in Tokyo, Japan, Shanghai Jiao Tong University, Sungkyunkwan University in Korea, Penn State in USA, Czech Technical University in Prague, University at West Indies, Graz University of Technology, Austria, and other prestigious academic institutions worldwide. He serves as the Editor-in-Chief, Associate Editor-in-Chief, Co-Editor, and Guest-Editor. He speaks 16 languages and his 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.

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