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SmartTechCon2017

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Editor(s)

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Welcome Message

Dear Colleagues,

On behalf of the SmartTechCon 2017 Organizing Committee, it is our pleasure to welcome you all to the International Conference on Smart Technologies for Smart Nation. SmartTechCon 2017 is the first international conference initiated from India by REVA University to provide an international forum for the presentation and discussion of recent advances in Smart Technologies, Communication and Internet of Things. SmartTechCon is technically sponsored by IEEE Bangalore Section, IEEE Computational Intelligence Society Bangalore Chapter and Research Publishing, Singapore. The conference will be held from 17 - 19 August 2017 at REVA University, Bangalore.

We are honored to have 7 internationally renowned keynote speakers, who will deliver their keynote speeches in the morning sessions. Two short-course will be conducted by experts in their respective fields. We also planned for 2 tutorials.

A total of 963 submissions were received globally, witnessing this truly popular and international event. We have 21 papers accepted from the submissions received from Bangladesh, Sudan, Singapore, Indonesia, Malaysia, Ethiopia, Iran, Sri Lanka, Mexico, China, Oman, USA and UK. The Technical Program Committee (TPC) comprising 180 experts from academia and industry selected 298 papers for presentations. The conference will run in 6 parallel sessions in 3 days, in which 5 Best Paper will be selected based on the recommendation by the reviewers.

We would like to express our sincere thanks to our Keynote speakers, all the authors, and the conference attendees. Our deep appreciation goes to Peer-Review Overseer members, Steering Committee members, TPC members, and Session Chairs for their invaluable contribution. Recognition should go to the Local Organizing Committee members who have all worked extremely hard for the details of important aspects of the conference programs and social activities. We appreciate the contributions of all the student volunteers who have given their time to help make the conference successful. We would like to thank C & M Consultants for their great services as Professional Conference Organizer (PCO). We wish to thank Mr. Sankaran of Research Publishing, Singapore for his invaluable support.

We are grateful to our technical co-sponsors IEEE Bangalore Section and IEEE Computational Society, Bangalore Chapter. Finally, we would like to thank all our sponsors and supporters for their contribution to the conference.

Enjoy the first edition of SmartTechCon and your stay in Bangalore, India.

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Thursday, 17 August 2017	
7:30 onwards	Registration
09:00 – 10:15	Opening @ Auditorium, C. V. Raman Block (please refer separate programme - available onsite)
10:15 – 11:00	Inaugural Keynote: <i>Prof. Dr. Álvaro Rocha</i>
11:00 – 11:30	Tea/Coffee break
11:30 – 12:15	Keynote 1 : Understanding and Modelling the Human Brain using Spiking Neural Networks <i>Prof. Suresh Sundaram</i> , <i>Deputy Director - Robotics Research Center; Cluster Director - ERI@N</i> , Nanyang Technological University, Singapore
12:15 – 01:00	Keynote 2 : Ethernet/IP Enhanced Data Access (EDA) for robots and CNCs <i>Dr. Ashok Prajapati</i> , <i>Vice Chairman at IEEE Computer Society, Associate Editor, http://inderscience.com, Stanford University, Rochester, Michigan, USA</i>
01:00 – 02:00	Lunch Break
02:00 – 03:00	Session 1
	S1.1: Power, Energy and Power Electronics-I
	S1.2: Renewable Energy-I
	S1.3: High Voltage, Switching Circuits & Power Converters
	S1.4: Signal & Image Processing-I
	S1.5: Communication Systems-I
	S1.6: Computational Intelligence-I
03:30 – 04:00	Tea/Coffee break
04:00 – 06:00	Session 2
	S2.1: Power, Energy and Power Electronics-II
	S2.2: Renewable Energy-II
	S2.3: Cloud/Mobile Computing-I
	S2.4: Singnal & Image Processing-II
	S2.5: Communication Systems-II
	S2.6: Computing Technologies-I

Friday, 18 August 2017	
7:30 onwards	Registration
09:30 – 10:15	Keynote 3 :Internet of Things and Industry 4.0: The New Research Paradigm <i>Dr. Thinagaran Perumal, Unit Head: Cyber-Physical Systems, Universiti Putra Malaysia, Malaysia</i>
10:15 – 11:00	Keynote 4 : Smartgrid: Yesterday, Today and Tomorrow <i>Prof. Dr. D. P. Kothari, Director Research, S. B. Jain Institute of Technology, Management & Research, Nagpur, India</i>
11:00 – 11:30	Tea/Coffee break
11:30 – 01:00	Session 3
	S3.1: Power, Energy and Power Electronics- III
	S3.2: Motors & Drives
	S3.3: Communication Systems-III
	S3.4: Big Data & Data Mining-I
	S3.5: Internet of Things IoT-I
	S3.6: Robotics, Control, Instrumentations & Automations
01:00 – 02:00	Lunch Break
02:00 – 03:00	Session 4
	S4.1: Power Generation, Transmission, Utility & Storage
	S4.2: Communication Systems-IV
	S4.3: Big Data & Data Mining-II
	S4.4: Intelligent Transport Systems-I
	S4.5: VLSI & Recent Advances
	S4.6: Biomedical Engineering
03:30 – 04:00	Tea/Coffee Break
04:00 – 05:30	Session 5
	S5.1: Signal & Image Processing-III
	S5.2: Communication Systems-V
	S5.3: Computational Intelligence-II
	S5.4: Computing Technologies-II
	S5.5: Power, Energy and Power Elect.-IV
	S5.6: Smart City Applications-I

06:30 – 09:30	Cultural Program & Banquet Dinner
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Saturday, 19 August 2017	
7:30 onwards	Registration
09:30 – 10:15	Keynote 5: A Journey of Electrical Distribution Power Flow Study Towards Automation , Programmed Leader of Electrical Power Engineering, Caledonian College of Engineering (A University College), Sultanate of Oman <i>Dr. Dharmasa Pawar</i>
10:15 – 11:00	Keynote 6 :Cloud, Big Data, IoT and Advanced Analytics -Opportunities and Challenges <i>Dr. Madhan Kumar Srinivasan, Associate Vice President - Cloud and Big Data Analytics, Analytics Advisory, Accenture Innovation Center for Analytics, Bangalore, India ; Founder Member, Cloud Computing Innovation Council of India</i>
11:00 – 11:30	Tea/Coffee break
11:30 – 01:00	Session 6
	S6.1: Communication Systems-VI
	S6.2: Internet of Things IoT-II
	S6.3: Intelligent Transport Systems-II
	S6.4: Smart City Applications-II
	S6.5: High Voltage, Swtching Circuits & Power Converters-II
	S6.6: Big Data & Data Mining-IV/SE
01:00 – 02:00	Lunch break
02:00 – 03:00	Session 7
	S7.1: Internet of Things IoT-III
	S7.2: Power, Energy and Power Elect.-V
	S7.3: Big Data & Data Mining-III/SE
	S7.4: Emerging Technologies (ET)
	S7.5: Renewable Energy-III
	S7.6: Communication Systems-VII
03:30 – 04:00	Tea/Coffee break
04:00 – 06:00	Session 8
	S8.1: Internet of Things IoT-IV
	S8.2: Networks & Security
	S8.3: Power, Energy and Power Elect.-VI

	S8.4: Renewable Energy-IV
	S8.5: Cloud/Mobile Computing-II
	S8.6: Intelligent Transport Sys-III
	END OF CONFERENCE

Keynotes Speakers

Keynote 1	Understanding and Modelling the Human Brain using Spiking Neural Networks
Date / Time	17 – 19 August 2017 / 11:30 – 12:15
Speaker	Prof. Suresh Sundaram , <i>Deputy Director - Robotics Research Center; Cluster Director - ERI@N, Nanyang Technological University, Singapore</i>

Biography



Prof. Suresh Sundaram is an Associate Professor with School of Computer Science and Engineering at Nanyang Technological University, Singapore. In the field of Data Analytics and Automation, he plays an important role as Cluster Director At ERI@N and Deputy Director at Robotic Research Center. His research interests are in Computational Cognitive Analytics, Intelligent Control and Automation. He closely works with many SME's on data analytics and robotic automation for industrial problems. Prior to joining NTU, Suresh was an Assistant Professor at Indian Institute of Technology - Delhi during 2008-2009. For a short-period, he was with Korea University as a faculty in Industrial Engineering department. From 2007-2008, he was selected as a ERCIM research fellow and spent valuable time in the project team PULSAR at INRIA Sophia-Antipolis, France. He received post-doctoral training under the guidance of Prof. N. Sundararajan at School of Electrical Engineering, Nanyang Technological University, Singapore, from 2005-2007. He received Masters (1999-2001) and Ph.D (2001 - 2005) degree from Department of Aerospace Engineering, Indian Institute of Science, Bangalore India. He published more than 200 journals and conference papers and a book on complex-valued neural network. He served in various committees in IEEE Computational Intelligence Society, Singapore. He was a general chair for IEEE SSCI 2018 and co-chair for IEEE CISDA. He also served as a Publication Chair in IEEE SSCI 2013.

Abstract

The research and development in Artificial Intelligence attempt to represent the human intelligence and thought, whereas the Artificial Neural Networks attempts to model the human brain. Recent development in ANN neural network aims to provide autonomy in learning by understanding the psychological aspect of human learning. Recent developments in neuroscience, motivated researchers to develop an advanced neuron model called ‘‘spiking Neuron’’, which closely represent the neurons in the human brain and its dynamics. The spiking neurons are computationally more powerful than conventional neural networks. Further, the advancement in technology, it is possible to extract the knowledge from big-data in an efficient, brain-like way and present the model in highly parallel neuromorphic hardware systems. The talk first presents the principle behind spiking neuron and then introduce several learning algorithms in spiking neural network. Further, the talk introduces the concept of meta-neuron and its online learning algorithm for handling big-data. Finally, how we can realize SNN in hardware, towards development of neuromorphic systems.

I will let you know tomorrow by travel plan for further processing.

Keynote 2	Ethernet/IP Enhanced Data Access (EDA) for robots and CNCs
Date / Time	17 – 19 August 2017 / 12:15 – 01:00
Speaker	Dr. Ashok Prajapati , <i>Vice Chairman at IEEE Computer Society, Associate Editor, http://inderscience.com, Stanford University, Rochester, Michigan, USA</i>

Biography



Prof. Dr. Ashok Prajapati, has over 15 years of technology experience and is well known researcher in his field. He works as an engineer/researcher in the world's leading industrial robot manufacturer in USA. He has always given high tech and very demanding products to the industry. He received his PhD in Computer Engineering from Oakland University USA. He obtained his master's degree from National Institute of Technology followed by a yearlong thesis from IIT Kanpur (India). His bachelor degree is in Computer Science & Engineering from KNIT Sultanpur (UP). He published about 20 international conferences and journals. He has many books and a patent in his credit. His senior IEEE membership and Associate Editor of IJFSE role vouches for his technical and professional maturity in his field of expertise. He is serving as Vice-Chair of IEEE Computer Society, South-East Michigan (USA) for last three years.

Keynote 3	Internet of Things and Industry 4.0: The New Research Paradigm
Date / Time	18 – August 2017 / 09:30 – 10:15
Speaker	Dr. Thinakaran Perumal , <i>Unit Head: Cyber-Physical Systems, Universiti Putra Malaysia, Malaysia</i>

Biography



Dr. Thinakaran Perumal is a Senior Lecturer in the Department of Computer Science, Faculty of Computer Science and Information Technology, Universiti Putra Malaysia. Dr. Thina received his BEng in Computer and Communication Systems from UPM in 2003, and his M.S. and Ph.D. in Intelligent Systems from same university in 2006 and 2012, respectively. Thina's research interests include embedded systems, Internet of Things (IoTs), smart homes and building automation, machine learning, robotics, smart cities, and ambient intelligence for smart environments. Thina is currently serving as Chapter Chair for the IEEE Consumer Electronics Society Malaysia Chapter. She has received research funding for 5 sponsored projects as Principal investigator and for 3 projects as co-investigator worth of ~ Rs.110 Lakhs from various funding agencies such as Indira Gandhi Atomic Centre for Research (IGCAR), Kalpakkam, National Institute of Ocean Technology (NIOT), Chennai, INTEL Bangalore, DST and SSN. She is a member of IEEE, Fellow of IETE, and Life member of ISTE.

2017 International Conference On Smart Technologies For Smart Nation (SmartTechCon)

Keynote 4	Smartgrid:
Date / Time	18 – August 2017 / 10:15 – 11:00
Speaker	Prof. Dr. D. P. Kothari , <i>Director Research, S. B. Jain Institute of Technology, Management & Research, Nagpur, India</i>

Biography



Prof. Dr. D. P. Kothari, is presently Director Research of S.B. Jain Institute of Technology, Management and Research Nagpur. He obtained his BE (Electrical) in 1967, ME(Power Systems) in 1969 and Ph.D. in 1975 from BITS, Pillani, Rajasthan. From 1969 to 1977, he was involved in teaching and development of several courses at BITS Pillani. Earlier Dr. Kothari served as Vice Chancellor, VIT, Vellore, Director in-charge and Deputy Director (Administration) as well as Head in the Centre of Energy Studies at Indian Institute of Technology, Delhi and as Principal, VRCE, Nagpur. He was visiting professor at the Royal Melbourne Institute of Technology, Melbourne, Australia, during 1982-83 and 1989, for two years. He was also NSF Fellow at Perdue University, USA in 1992. He also taught at Melbourne University Australia for one semester in 1989. Dr. Kothari, who is a recipient of the most Active Researcher Award, has published and presented 812 research papers in various national as well as international journals, conferences, guided 50 Ph.D scholars and 68 M. Tech students, and authored 50 books in various allied areas. He has delivered several keynote addresses and invited lectures at both national and international conferences. He has also delivered 42 video lectures on YouTube with maximum of 40,000 hits! He received Excellent Academic Award at IIT Guwahati by NPSC-2014. In 2016, he has received 6 Life Time Achievement awards by various agencies on 19 February, 4 March, 11 March, 18 March, 20TH March and 25 March 2016, respectively. Dr. Kothari is a Fellow of the National Academy of Engineering (FNAE), Fellow of Indian National Academy of Science (FNASc), Fellow of Institution of Engineers (FIE), Fellow IEEE, Hon. Fellow ISTE and Fellow IETE. His many awards include the National Khosla Award for Lifetime Achievements in Engineering (2005) from IIT, Roorkee. The University Grants Commission (UGC), Government of India has bestowed the UGC National Swami Pranavandana Saraswati Award (2005) in the field of education for his outstanding scholarly contributions. He is also the recipient of the Lifetime Achievement Award (2009) conferred by the World Management Congress, New Delhi, for his contribution to the areas of educational planning and administration. Recently he received Excellent Academic Award at IIT Guwahati by NPSC-2014. In last two months he has received 6 Life Time Achievement awards by various agencies on 19th February, 4th March, 11th March, 18th March, 20TH March and 25th March 2016, respectively. On 20th April 2016 he received 'Living Legend' Award in Chennai Conference.

Wikipedia Link: <http://en.wikipedia.org/wiki/D.P.Kothari>

Keynote 5	A Journey of Electrical Distribution Power Flow Study Towards Automation
Date / Time	19 – August 2017 / 09:30 – 10:15
Speaker	Dr. Dharmasa Pawar , <i>Programmed Leader of Electrical Power Engineering, Caledonian College of Engineering (A University College), Sultanate of Oman</i>

Biography



Dr. Dharmasa Pawar, is currently working as a Programmed Leader of Electrical Power Engineering at Caledonian College of Engineering (A University College), Sultanate of Oman. Since 2009, he is an active IEEE Member. In the year 2011, he became an IEEE Branch Counselor at Caledonian College of Engineering and in the year 2012, he has been elected as a Membership Development Officer for the Country Sultanate of Oman. Presently, he is an IEEE Sr. Member. He received BE (Electrical), ME (Power and Energy System) degrees from Bangalore Government University in the year 1996 and 2000, respectively and PhD (Power Distribution Analysis) degree received from Jawaharlal Technological Government University in the year 2011. He has published 27 papers in the international level conferences and journals and he was also associated as Technical Discussion IET, UK, Berkeley Press, Canada and IEEE. His area of research interest includes: Power System Analysis; Power System Protection, Reliability, Renewable Energies, Engineering Industrial Practice. Since October 2010, he is with Caledonian College of Engineering and contributing in teaching, research and curriculum development as per Glasgow-University (UK) norms, which is operating under Ministry of Higher Education, Oman. In his previous positions, he worked as: Engineer-Assistant, Professor.-Associate- Professor Professor-HOD and Educational Advisor, at various industry and organization: Bharuka Gases Limited, Bangalore, SNIST-JNT University, EIT-Asmara University, certified-safety warden, respectively.

Keynote 6	Cloud, Big Data, IoT and Advanced Analytics -Opportunities and Challenges
Date / Time	19 – August 2017 / 10:15 – 11:00
Speaker	Dr. Madhan Kumar Srinivasan , <i>Associate Vice President - Cloud and Big Data Analytics, Analytics Advisory, Accenture Innovation Center for Analytics, Bangalore, India ; Founder Member, Cloud Computing Innovation Council of India</i>

Biography



Dr. Madhan Kumar Srinivasan, is currently the 'Associate Vice President of Analytics Advisory and Cloud & Big Data Analytics Product Offerings Lead' at Accenture Innovation Center for Analytics, Accenture Solutions Ltd., Bangalore, India and the 'Founder Member' of Cloud Computing Innovation Council of India (CCICI). Prior to Accenture, he worked as an Assistant Director & Principal Consultant at GSTF Pte. Ltd., Singapore and as a Senior Member-E&R at Infosys, India. He holds a Ph.D. in Cloud Computing from Hindustan University, India and pursuing his Executive Management program EPBA (specialized in Business Analytics/Data Science) from Indian Institute of Management Calcutta (IIM-C), India. Dr.Madhan is an IBM Certified Cloud Solution Architect, IBM Certified Big Data and Hadoop, and MapR Certified Big Data professional. He has published 20+ refereed research papers covering vast range of top international publishers like ACM, Elsevier, IEEE & Springer, etc. He has presented papers, keynote presentations, seminars/workshops in more than 75 international conferences/events worldwide. Dr.Madhan has authored 5 chapters in 3 research text books published by Springer, New York, USA. In addition, he is an editorial board member & a designated reviewer for various International Journals which includes IEEE Transactions TNSM-Cloud Services, China Communications, IGI Global Journals (USA), Cyber Journals (Canada), etc. Also, he was an Organizing Chair for the following world's prominent International conferences like IEEE mCloud 2013 (Italy), ACM CloudID 2012 (India), Springer/ACM ID 2011 (India), IEEE CloudID 2013 (India). Dr. Madhan is a recipient of "Top 100 Scientists for 2014" Award from IBC, Cambridge, England and "Cloud Tech Guru" Award from Infosys. In a survey, LinkedIn has recognized his profile as "One of the Top 10% Most Viewed LinkedIn Profiles for 2012 in India" among 200 Million Users. His profile was listed as "Who's Who in the World" for the consecutive years 2014, 2015 and 2016 as a Research Scientist by Marquis, New Jersey, USA. Once again, Marquis has selected his profile as "Who's Who in Science and Engineering" for the year 2016-17. In addition, he is also a recipient of the most prestigious "Inspiring Teacher Award" for the year 2010 from Teacher's Academy at Osmania University, India.He is having a successful track record of highly satisfied international clients including Microsoft, IBM, HP, Deloitte, SAP Labs, Philips, Panasonic, Standard Chartered Bank, ANZ Bank, UBS Bank, Reliance, NUS, SMU, Singapore Ministries (MOM, IDA, DSTA, MAS) and ranging from countries like USA, Singapore, Brazil, Spain, India, China, Malaysia, Philippines, Oman, Myanmar, Netherlands and Bolivia.

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- 082 **Kogge Stone Adder With GDI Technique in 130nm Technology for High Performance DSP Applications**
Bujjibabu Penumutchi, Satyanarayana Vella and Harichandraprasad Satti
- 116 **A Review on Artificial Intelligence Techniques in Electrical Drives : Neural Networks, Fuzzy logic, and Genetic Algorithm**
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- 458 **Continuous Tracking of Maximum Power Point of PV array with Controller**
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- 180 **Soft Switching based Single Switch Integrated Converter with High Voltage Gain for Renewable Energy Conversion**
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- 218 **Comparative Analysis of Solar Photovoltaic Cell Models**
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- 284 **A Narrative Review On Offshore Wind Power Transmission Using Low Frequency AC System**
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D. Ravi Prasad, B. Rajesh Kamath and K. R. Jagadisha

- 079 **Coordinated Control of SVC and TCSC for Voltage Profile Improvement Employing Particle Swarm Optimization**
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- 175 **Eight Phase MIBC for High Step Down Ratio with Closed Loop Control**
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- 416 **Performance Analysis of Bridgeless DCM SEPIC Rectifier for Universal Input Voltage Applications with Fast Dynamic Response**
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- 347 **Performance Evaluation of Microstrip Patch Antenna using Plywood as Substrate for Fixed Satellite and Earth Exploration Applications**
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- 359 **A Slotted Multiband Antenna With Wide-bandwidth operation at Lower Band for WLAN/WiMAX Applications**
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- 519 **Routing Protocols in VANET- A Survey**
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- 769 **Integration of RFID and Sensor in Agriculture Using Iot**
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