

Special Invited Lecture Programme Instrumentation & Measurement Society, IEEE 29th August 2016



Organized by:
**Department of Electrical Engineering
National Institute of Technology Meghalaya**

In collaboration with



IEEE Joint CSS-IMS Chapter, Kolkata & IEEE Kolkata Section

Venue:
**Lecture Hall (9:30 AM to 5:00 PM)
NIT Meghalaya, Bijini Complex, Laitumkharah, Shillong, Meghalaya –793003, INDIA**

Lecture 1: Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Cardiorespiratory and Physical Rehabilitation Assessment.



Professor Octavian Adrian Postolache (M'99, SM'2006) graduated in Electrical Engineering at the Gh. Asachi Technical University of Iasi, Romania, in 1992 and he received the PhD degree in 1999 from the same university, and university habilitation in 2016 from Instituto Superior Tecnico, Universidade de Lisboa, Portugal. In the period 1992-2000 he worked as assistant and assistant professor at Technical University of Iasi. In 2000 he became principal researcher of Instituto de Telecomunicações where he is now Senior Researcher. He served as invited professor at EST/IPS Setubal, Portugal between 2001 and 2012 when he joined Instituto Universitario de Lisboa/ ISCTE-IUL Lisbon where he is currently Aux. Professor. His fields of interests are smart sensors for biomedical and environmental applications, pervasive sensing and computing, wireless sensor networks, signal processing with application in

biomedical and telecommunications, non-destructive testing and diagnosis based on eddy currents smart sensors, computational intelligence with application in automated measurement systems. He was principal researcher of different projects including EHR-Physio regarding the implementation of Electronic Health Records for Physiotherapy and he is currently principal researcher of TailorPhy project Smart Sensors and Tailored Environments for Physiotherapy. He is vice-director of Instituto de Telecomunicações/ISCTE-IUL delegation, director of PhD program Science and Communication Technologies at ISCTE-IUL, and he was leader of several collaboration projects between the Instituto de Telecomunicações and the industry such as Home TeleCare project with Portuguese Telecommunication Agency for Innovation (PT Inovação), Integrated Spectrum Monitoring project with National Communication Agency (ANACOM). He is active member of national and international research teams involved in Portuguese and EU and International projects. Dr. Postolache is author and co-author of 9 patents, 4 books, 16 book chapters, 66 papers in international journals with peer review, more than 220 papers in proceedings of international conferences. He is IEEE Senior Member I&M Society, Distinguished Lecturer of IEEE IMS, chair of IEEE I&MSTC-13 Wireless and Telecommunications in Measurements, member of IEEE I&MSTC-17, IEEE I&MSTC-18, IEEE I&MS TC-25, IEEE EMBS Portugal Chapter and chair of IEEE IMS Portugal Chapter. He is Associate Editor of IEEE Sensors Journal, and IEEE Transaction on Instrumentation and Measurements, he was general chair of IEEE MeMeA 2014, and TPC chair of ICST 2014, Liverpool and ICST 2015 in Aukland.

Lecture 2: Instrumentation Systems for Hand Vein Based Biometrics using Thermal Imaging.



Professor Amitava Chatterjee received the B.E., M.E., and Ph.D. degrees in Electrical Engineering from Jadavpur University, Kolkata, India, in 1991, 1994, and 2002, respectively. He is currently serving as a Professor in Electrical Engineering Department of Jadavpur University, Kolkata, India. He is a recipient of the Japanese Government (Monbukagakusho) Scholarship in 2003 and a recipient of the Japan Society for the Promotion of Science (JSPS) Post-Doctoral Fellowship in 2004. In 2004 and in 2009 he visited University of Paris XII, Val de Marne, France, as an Invited Teacher. Dr. Chatterjee's key research interests include nonlinear control, intelligent instrumentation, image processing and pattern recognition, computer vision, signal processing and robotics. Dr. Chatterjee is a member of the Technical Committee on "Imaging Measurements and Systems" of IEEE Instrumentation & Measurement Society, USA. He is a Fellow of the

IETE (India), a Fellow of the Institution of Engineers (India), and a Senior Member of the IEEE (USA). He has served/is serving in important positions in several International Conference Committees all over the world, including several flagship IEEE Conferences. Presently he also serves as the Chapter Advisor of IEEE Instrumentation & Measurement Society Madras Chapter (Chennai), India and as an Executive Committee Member of IEEE Kolkata Section.

Lecture 3: Nano-Bio Sensors for Cancer Sub-Group Detection from Gene Expression Data.



Professor Kaushik Das Sharma received the B.Tech. and M.Tech. degrees in Electrical Engineering from Department of Applied Physics, University of Calcutta, Kolkata, India, in 2001, 2004 respectively and Ph.D. degree from Jadavpur University, Kolkata, India, in 2012. He is currently serving as an Assistant Professor in Electrical Engineering Section of Department of Applied Physics, University of Calcutta, Kolkata, India. He is a recipient of the Kanodia Research Scholarship in 2002 and University Gold Medal in 2004 from University of Calcutta. Dr. Das Sharma's key research interests include fuzzy control, stochastic optimization, signal processing, mobile robot navigation and computational approaches in disease detection. Dr. Das Sharma is a Senior Member of the IEEE (USA), member of the IET (UK) and a Life Member of Indian Science Congress Association. He has served/is serving in important positions in

several International Conference Committees all over the world. Presently he also serves as Executive Committee Members of IEEE Kolkata Section, IEEE Joint CSS-IMS Kolkata Chapter and IET (UK) Kolkata Local Network.

Registration Fee for External Participant

Faculty/PhD Scholar from EE/EI/ECE/CSE	500 INR
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Note: Registration fee includes lunch & registration kit.

Important Dates

Download link active	20 th July 2016
Last date of application received	20 th August 2016
Intimation of participation	22 th August 2016

About NIT Meghalaya

National Institute of Technology (NIT) Meghalaya is one of the thirty one NITs in India established under the NIT Act 2007 (Amended 2012) of the Parliament of India as Institutes of National Importance with full funding support from the MHRD, Government of India. NIT Meghalaya was established in the year 2010 and within the short 6 (six) years of existence has been able to exhibit its potential to become a centre of excellent in Engineering Education & Research.

At present, the institute is functioning in its temporary campus at Bijni complex, Laitumkharh, Shillong in Meghalaya. The campus is about 2-3 kms from the Police Bazaar, center of the Shillong. The city of Shillong is a hill station with pleasant weather conditions, pollution-free, well medical facilities, and hub of education for the entire North-East India. The temperature at Shillong varies from 24°C (in summer) to 4°C (in winters). The city is well connected with rest of country by road/flight. The nearest railway station is at Guwahati (Assam), at a distance of 90 kms from Shillong. The nearest airport is located within the city, but it operated 2-3 days a week. The second nearest airport is Guwahati international airport which is about 120 kms from Shillong. After getting down at Guwahati airport or railway station, share taxis are available to reach Shillong within fare range of Rs 500 to Rs 600.

The Department of Electrical Engineering, NIT Meghalaya, started functioning since the inception of NIT Meghalaya in 2010. The main objective of the department is to impart quality education at undergraduate, postgraduate and doctoral level. The department is well equipped with laboratories; computers, latest simulation software and our students are exposed to recent technologies. The department has well experienced and dedicated faculty members with different specialization.

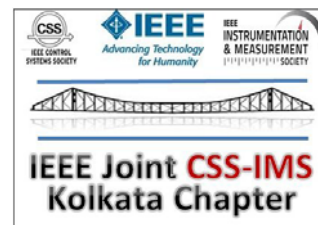
Registration Form

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29th August, 2016**

Time: 9:30 AM to 5:00 PM

Venue: Lecture Hall, NIT Meghalaya, Shillong-793003

Full Name of the Participant (Block Letters):

Category: Faculty/ Ph.D Scholar [*Please tick*]

Full Address of Institute:

.....

.....PIN.....Sex(M/F).....Mobile:.....

E-mail:.....IEEE member(yes/no).....If yes membership
no.....Demand Draft No:dated..... Amount
in INRdrawn on..... bank towards

registration fee drawn in favor of “**ORPROG EE NITM**”, payable at “**SHILLONG**” is enclosed. The
registration fee can also be paid through online transfer for the above said account.

Bank account details:

A/C no.: 916010025121983, IFSC code: UTIB0001176, MICR code: 793211003

Please attach the online transfer receipt along with the registration form.

Accommodation Required [YES/NO]: (If YES, advance to be paid for lodging separately along
with registration fee)

Date & Place:

Signature of the Participant

Forwarded by Head of Institution/Department, *With Seal*

Note: *Filled registration form along with DD should be sent to:*

HOD, Department of Electrical Engineering, NIT Meghalaya, Bijni Complex,
Laitumkharah, Shillong – 793003, India.

Email: atanu_banerjee@nitm.ac.in

Contact: +91-9485177068/9402102390/9485177065