The IEEE Italy Section and the Department of Engineering – University of Perugia,
introduce:

3rd IEEE Italy Section Summer School:
SMARTER ENGINEERING FOR INDUSTRY 4.0 (SmE4I4.0)

Aimed at engineers wishing to meet Industry 4.0 challenge

School of Engineering, via G. Duranti, Perugia, Italy, 17 - 23 September 2017

OPEN FOR APPLICATIONS

Industry 4.0 or the forth industrial revolution has been opened by the astonishing rise in computational power and connectivity. Paradigms of production change: new forms of human-machine interaction are required (touch interfaces, augmented-reality systems, etc.), and new technologies for transferring digital instructions to the physical world are needed (advanced robotic, 3-D printing, etc.). Students will be exposed to topics such as:

- Additive Manufacturing
- Digitalizazion, Modelling and Simulation
- Data Security
- Deep Learning

- The role of electrification and automation in the agriculture of the future
- Telemedicine
- Human-Machine Interfaces

General Chairmen
- Elisabetta M. Zanetti (University of Perugia)
- Antonio Faba (University of Perugia)

Technical Program Chairmen
- Elisabetta M. Zanetti (University of Perugia)
- Paolo Conti (University of Perugia)
- Giambattista Gruosso (Politecnico di Milano and IEEE Italy Section)
- Vitoantonio Bevilacqua (Politecnico di Bari)

Treasurer
- Sergio Rapuano (IEEE Italy Section)

Steering Committee
- Ermanno Cardelli (IEEE Italy Section),
- Tiziana Tambosso (IEEE Italy Section),
- Dario Petri (IEEE Italy Section)

Web and Publicity
- Francesca Tufi (University of Perugia)
- Michele Pompei (University of Perugia)

Conference fees

	Regular (one week)	One-day
IEEE Member	190 €	70 €
Non-IEEE Member	240 €	90 €

DI Dipartimento *di* Ingegneria
Department *of* Engineering

IEEE
Italy Section

ORDINE DEGLI INGEGNERI
PROVINCIA DI PERUGIA
FONDAZIONE
Ordine Ingegneri Perugia

3rd IEEE Italy Section Summer School
Perugia, September 17-23 2017
Smarter Engineering towards Industry 4.0

A Qualifying IEEE Certificate of Attendance will be issued to attendees.

PRELIMINARY PROGRAM

Sunday, September 17-th
17,00 Welcome and reception

Monday, September 18-th
9,00-13,00 M. Varetti, AMICO (Additive Manufacturing Industrial Consultant), *Technologies for metal additive manufacturing*

14,30-18,30 G. Rossi, Univ. of Perugia, *Contactless stress and strain measuring techniques for the experimental optimization of additive manufacturing components*

Tuesday, September 19-th
9,00-10,50 M. Varetti, AMICO (Additive Manufacturing Industrial Consultant), *From structural optimization to executive drawings*

11,10-13,00 G. Rossi, Univ. of Perugia, *Additive manufacturing of plastic components*

14,30-18,30 D. Raguseo, IBM Security**,** *Security challenges in Industry 4.0*

Wednesday, September 20-th
9,00-13,00 C. Bignardi, **M. Terzini**, Politecnico di Torino**,** *Patient-specific planning of arthroplasty: from CT scans to structural models* (break **10,20-10,40**)

13,00-14,30 lunch

14,30-16,30 E. Ricci, Univ. of Perugia, *Deep Learning*

14,30-20,30 Guided Tour and Dinner

Thursday, September 21-st
9,00-10,50 C. Bignardi, M. Terzini, Politecnico di Torino**,** *Patient-specific planning of arthroplasty: from CT scans to structural models*

11,10-13,00 G. Gruosso, L. Bascetta, Politecnico di Milano, *Farm 4.0: the role of electrification and automation in the agriculture of the future*

13,00-14,30 lunch

14,30-18,30 G. Gruosso, L. Bascetta, Politecnico di Milano, *Farm 4.0: the role of electrification and automation in the agriculture of the future*

Friday, September 22-nd
9,00-10,50 V. Bevilacqua Politecnico di Bari**,** *New methodologies of Human Machine Interaction for Gait Analysis and neurological Movement Disorders*

11,10-13,00 E. Pasero, Politecnico di Torino, *Telemedicine today: Where the Hospital isn't a Hospital at all*

14,30-16,20 M. Moschetta, Univ. di Bari , *The tomosynthesis: a new radiologic diagnostic technique*

17,10-18,30 C. Loconsole, Politecnico di Bari, *Latest assistive technologies for the visually impaired*

Saturday, September 23-rd
9,00-11,00 Final evaluation test

11,00-12,00 Certificate presentation

12,00-13,30 Closing ceremony - Porchetta and Bierstube

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