



COMILLAS
UNIVERSIDAD PONTIFICIA

ICAI ICADE CIHS

Reunión REDYD2050 Presentación ICAI-IIT

17 de septiembre de 2020

comillas.edu



Índice

- Comillas e ICAI
- Instituto de Investigación Tecnológica (IIT)
- Equipo

Universidad Pontificia Comillas



Comillas in Numbers

- University founded in 1890
- 6 faculties: 2 campuses in Madrid
- 10,000 students

Rankings

- European Teaching Ranking 2018 from the Times Higher Education, 51-75th overall, 1st in Engagement
- 86th all over the world in the United Nations' Sustainable Development Goals

Alumni

- José Ignacio Sánchez-Galán, President Iberdrola
- José D. Bogas Gálvez, CEO Endesa
- Marcelino Oreja Arburúa, CEO Enagás
- Bernardo Velázquez Herrero, CEO de Acerinox
- Amparo Moraleda, Member of the Board of Directors of Airbus SE/Vodafone/Solvay



ICAI in Numbers

- ICAI founded in 1908
- 6 departments
 - Mechanical Engineering
 - Power Systems
 - Electronics and Control Engineering
 - Computer Science & Communications
 - Industrial Engineering & Management
 - Applied Mathematics
- Students
 - 1,250 UG students
 - 550 Master/PhD
 - 250 faculty members

Research

- Institute for Research in Technology (IIT)
- Founded in 1984
- 150 R&D private projects and 5.5 M€ turnover
- 8 Research Groups
 - Energy economics & regulation
 - Energy system models
 - Smart and green networks
 - Smart industry & cities
 - Power Systems
 - Bioengineering
 - Fire safety engineering
 - Railway systems



Programas académicos en ICAI

CoMITes



Bachelor Degrees

- 4-year BSc degrees:
 - ✓ Mechanical Eng.
 - ✓ Power Systems Eng.
 - ✓ Electronics Eng.
 - ✓ Industrial Eng.
 - ✓ **Computer Science & Communications**
- 5-year dual BSc degree:
 - ✓ Computer Science & Communications + Business Analytics

Masters 2-year

- MSc degrees:
 - ✓ Industrial Eng.
 - ✓ Telecom. Eng.
- MEM
 - ✓ Master of Science + MBA

Professional Masters 1-year

- Railway systems
- **Electric Power Industry**
- Smart Industry
- Big Data Tec. & Advanced Analytics
- **Smart Grids**
- Engineering in mobility and safety
- **Cybersecurity**
- Environmental Eng.

PhD Programs

- Modeling of Engineering Systems
- Electric Energy Systems
- Sustainable Energy Technologies and Strategies – SETS



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Master in Smart Grids (MSG)

- MSc taught in partnership between the **University of Strathclyde, Comillas University and Iberdrola.**



Miguel Ángel Sánchez Fornié

Master's Director

Industrial Engineer from ICAI School of Engineering and Nuclear Security Diploma from MIT.

45+ years of experience in the professional energy sector (Hidroeléctrica, Iberduero, Iberdrola). Former Head of the Global Management of Smart Grids in Iberdrola Group. Since 1980 he has been an active participant in major research projects from the European Commission (FP7, H2020, ...)



Javier Matanza Domingo

Master's Coordinator

Telecommunication Engineer from UPV (Valencia) and PhD from ICAI.

Expert in digital communications, communications for health monitoring and powerline communications adapted for Smart Grids.

Professor Stephen McArthur

Master's Director at Strathclyde.

Co-Director of the Institute for Energy and Environment and Academic Director of the Low Carbon Power and Energy Programme. Former Head of the Department of Electronic and Electrical Engineering.

Expertise in intelligent systems applications in power engineering, active network management and wider smart grid applications



Professor Craig Michie

Master's Deputy Director at Strathclyde

BSc and PhD in Electronics and Electrical Engineering from the University of Glasgow. Entrepreneur and expert in wireless sensor monitoring and optical communications.



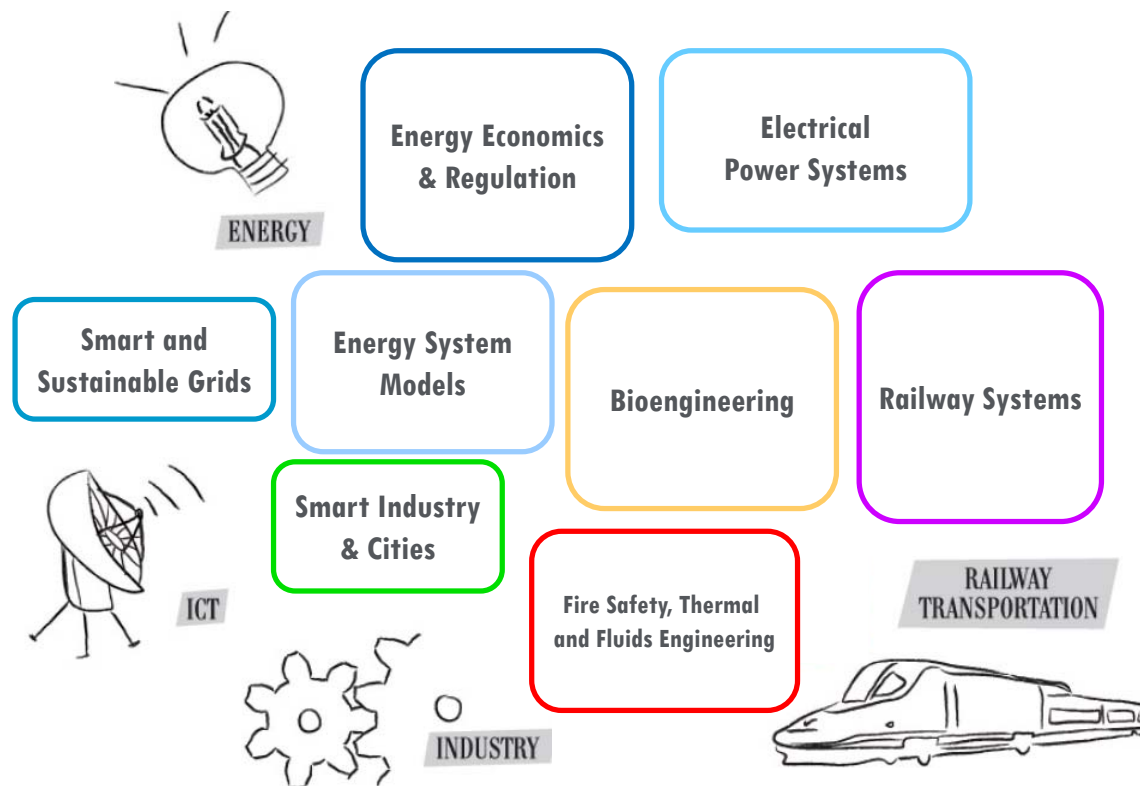
ICAI

Strathclyde

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Academic Board

Áreas de investigación (IIT)





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Empresas colaboradoras

Our main customer list includes Spanish and international companies and institutions in sectors like Energy, Transportation or Communications



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Proyectos europeos



RESPONSE



Equipo



Dr. Javier Matanza Domingo
Profesor Colaborador Asistente en Comillas-ICAI
Coordinador Máster de Smart Grid (SG)
Ing. Telecomunicación (Universidad Politécnica de Valencia)
Dr. Ing. Telecomunicación (Comillas-ICAI)
Tesis: Improvements in the PLC systems for SG environments
Áreas de investigación: Tratamiento Digital de Señal, Electrónica

Dr. Gregorio López López
Profesor Colaborador Asistente en Comillas-ICAI
Coordinador Máster de Ciberseguridad
Ing. Telecomunicación (Universidad Carlos III de Madrid)
Dr. Ing. Telecomunicación (Universidad Carlos III de Madrid)
Tesis: Contributions to M2M Architectures for SG
Áreas de investigación: Tecnologías y protocolos de Comunicaciones para M2M/IoT, ciberseguridad



Ing. Industrial (Comillas-ICAI)

