



SEMINARI GIOVANI RICERCATORI

2026 SALA CONSILIARE DIPARTIMENTO DEI
15:00 - 16:30

21

MAY, 2026

HAMZA NASRI

OPTIMIZING PERFORMANCE AND ENERGY YIELD IN SMART PHOTOVOLTAIC-THERMAL COLLECTOR SYSTEMS

TERESA NATALE

MINIATURIZED HIGH-END INTERFEROMETRIC OPTOELECTRONIC GYROSCOPES VIA SILICON PHOTONICS: FROM MODELING TO INTEGRATED IMPLEMENTATION

ANTONELLA MARIA LOCONSOLE

MID-IR SOURCES AND MM-WAVE ANTENNAS FOR NEW GENERATION SYSTEMS

LUISA DE PALMA

MACHINE AND DEEP LEARNING TECHNIQUES FOR NON-INVASIVE BLOOD PRESSURE ESTIMATION

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MAY, 2026

NICOLA ALTINI

DIGITAL TWINS FOR PRECISION MEDICINE: FROM COMPUTATIONAL PATHOLOGY TO MECHANISTIC MODELING

DAVI RODRIGUES

MENERGY-EFFICIENT NEUROMORPHIC COMPUTING ARCHITECTURES BASED ON MAGNETIC DYNAMICS

NICOLA MIGNONI

GAMES, LEARNING, AND CONTROL: FROM ENERGY TO BIOENG

SABRINA FRANCESCA PELLEGRINO

PHYSICS INFORMED NEURAL NETWORKS FOR INVERSE NONLOCAL PROBLEM BASED ON THE PERIDYNAMIC FORMULATION



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04

JUNE, 2026

GIAN MARIA ZACCARIA

MULTI-OMICS FOR DATA-DRIVEN PRECISION MEDICINE IN ONCOLOGY

ANDREA MEO

THE SPINTRONIC GYSOCOPE, A NEW WAY FORWARD

ARCANGELA RAGO

SHAPING 6G NETWORKS THROUGH EXPLAINABLE AI AT THE EDGE

MARIA DEL CACHO

INTELLIGENT AND SUSTAINABLE URBAN LOGISTICS: OPTIMIZATION,
ENERGY AND DIGITAL TWIN

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JUNE, 2026

JAMEL RIAHI

DRIVEN ENERGY OPTIMIZATION AND YIELD ENHANCEMENT IN SMART
GREENHOUSES

FRANCESCO ANELLI

MID-INFRARED FIBER PHOTONICS: EXPANDING THE LANDSCAPE OF
PHOTONIC DEVICES

GIANCARLO SCIDDURLO

VALUE DRIVEN SERVICE ORCHESTRATION FOR NEXT GENERATION
NETWORKS

PAOLO SCARABAGGIO

FROM DATA TO DECISIONS: LEARNING IN OPTIMIZATION AND CONTROL

SEMINARI

GIOVANI RICERCATORI

2026

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Politecnico
di Bari



DIPARTIMENTO DI
INGEGNERIA ELETTRICA
E DELL'INFORMAZIONE

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JUNE, 2026

DOMENICO BUONGIORNO

SYSTEMS FOR CLINICAL DIAGNOSIS AND NEUROMOTOR ASSESSMENT

MARTINO DE CARLO

NON-HERMITIAN SYSTEMS AND PROGRAMMABLE PHOTONICS

TOMMASO COLAFIGLIO

EEG AND BRAIN-COMPUTER INTERFACE: EMOTION RECOGNITION FOR ASSISTED MUSIC COMPOSITION

RUOTIAN LIU

CYBERSECURITY IN NETWORKED DISCRETE EVENT SYSTEMS: OPACITY AND DIAGNOSABILITY ANALYSIS UNDER ATTACKS