

The XV European Magnetic Sensors
and Actuators Conference



Poster Presentations

Tuesday	July 7	13h30 - 14h30 - Session 1	Senaatszaal Auditorium Building
Wednesday	July 8	13h30 - 14h30 - Session 2	
		17h30 - 18h30 - Session 3	

ID	Presentation Title	Presenting Author	Author Present for discussion	Main Topic
P01	Tuning Magnetostrictive Fe ₇₀ Ga ₃₀ Thin Films for SAW-Based Magnetic Sensors through Thickness, Substrate, and Geometry	Muhammad Sahil	Session 1	1. Magnetic Sensors
P02	Enhanced Magnetic Resolution in Elliptical Planar Hall Effect Sensors via Non-Collinear Anisotropy Engineering	Daniel Lahav	Session 3	
P03	Contactless Measurement of Automobile Brake System Parameters Using Magnetic Microwires	Samuel Onufer	Session 1	
P04	Electrodeposition and Characterization of FeNi Alloys on Copper Substrates for Fluxgate Sensor Applications	Panagiotis Priftis	Session 3	
P05	Flexible-Fluxgate Current Sensor with Improved Geomagnetic Field Immunity	Antonín Platil	Session 1	
P06	A highly unconventional Hall sensor based on skyrmions	Aitor Arredondo-López	Session 3	
P07	Optimizing top-pinned magnetic tunnel junctions for novel sensing applications	Huib Dijkstra	Session 1	
P08	Rapid design of magnetic MEMS: micro-speaker and micro-mirror	Perla Malagò	Session 2	2. Magnetic Actuators & MEMS
P09	Grain induced uniaxial magnetic anisotropy in AlScN/CoFeB thin films	Manoj M Matpathi	Session 1	
P10	Giant Reversible Strain of 16% in Ni-Fe-Ga Shape Memory Microwires	Martin Eliáš	Session 2	
P11	Linear Variable Inductive Transducer Position Sensor with EE Shape Armature	Mehran Mirzaei	Session 1	
P12	Introducing PYRAMID: Inverted Pyramid 3-axis Hall-effect magnetic sensor with offset cancellation	Jacopo Ruggeri	Session 3	
P13	Development of a High-Sensitivity Planar Hall Magnetoresistance Sensor for Non-Invasive Vascular Monitoring	Tung Hoang	Session 2	3. Biomedical Applications of Sensors &
P14	Fabrication of Flexible Giant magnetoresistance (GMR) sensors for recording of neural signals	Sayar Das	Session 3	

P15	Microdisks as magnetic labels for GMR biosensors	Maria G Ramón	Session 2	Actuators (S&A)
P36	Towards quantitative magnetic LFAs: comparison of inductive and GMR detection	Nordin Trifiro	Session 3	
P16	From Quantum Sensing to teaching Quantum with NV Centers	Berkay Isik	Session 2	4. Quantum-based Sensors
P17	Enabling Compact Magnetic Bias Sources for Next-Generation Sensors and Quantum Processors Through Thermally Stable PowderMEMS® Micromagnets	Mani T Bodduluri	Session 1	
P18	A traceable system for the calibration of optically pumped magnetometers	Marco Coisson	Session 2	
P19	Alignment and calibration of magnetometer suite using geomagnetic storms	Michal Janosek	Session 1	
P37	Decoherence Spectroscopy of Spin Waves in van der Waals Antiferromagnets	Debarghya Dutta	Session 1	
P21	Amorphous Bistable Microwire Sensor for Uniaxial Oscillations with Ultra-Low-Power Electronics	Patrik Jacko	Session 1	5. Magnetic Sensor Circuit Interfaces
P22	Offset Optimization of Orthogonal Fluxgate with Multiple Microwires	Michal Dressler	Session 2	
P23	Time-Domain Fluxgate-Based Active Magnetic Field Cancellation in a Braunbek Coil System	Maria Tsironi	Session 3	6. Metrology Techniques
P25	Investigation of the 3D Spatial Response of Planar Hall Magnetoresistance Sensors	Christophe Dolabdjian	Session 1	9. Modeling & Simulation
P26	Finite element modeling of magnetoactive polymer composites for the flux control of microfluidic systems	David De Cos	Session 3	
P27	Study on Demagnetization of Complex Structures for Space Applications	Vojtech Petrucha	Session 1	
P28	Micromagnetic study of buffer layer effect in SOT-enabled single-element magnetic sensors	José F Moutinho	Session 3	
P29	Stack-Driven Switching Field Engineering in Bottom-Pinned Perpendicular Magnetic Tunnel Junctions	Maria A Syskaki	Session 2	10. Novel Magnetic Materials and Other Applications
P30	Effect of RAM Mixing Duration on Transport and Magnetic Properties of Fe-Al Soft Magnetic Compacted Powder Cores	Martin Tkáč	Session 3	
P31	Composition-Driven Enhancement of Magnetostriction and Thermal Stability in Co ₂ FeAl _x Si _{1-x} Heusler Alloys	Liang Yao	Session 2	
P32	Reversible Tuning of Magnetic Anisotropy in Stress-Annealed FINEMET Wires for Multi-Mode Sensors	Tibor-Adrian Óvári	Session 3	
P33	Integration of Magnetic Nanofibers with Permalloy Thin Films and Sensing Applications	Marius Volmer	Session 2	
P34	Real-Time Magnetic Field Sensing Using Planar Hall Magnetoresistance (PHMR) Sensor Integrated on a Robotic Arm	Bibhutibhusan Nayak	Session 3	
P35	Application of Magnetic Microwires for Stress Sensing in Conveyor Belt Adhesive Joints	Miroslav Komorník	Session 2	