

The XIV European Magnetic Sensors and Actuators Conference

Tuesday, 25 June 2024

POSTER: Session 1 - MINERVA (16:00 - 18:00)

-Conveners: Diana Leitaó

| [id] title | presenter | board |
|--|------------------------|-------|
| [83] Ni ₂ FeGa Shape Memory Microwire for Micro-Actuators | Dr NULANDAYA, Limpat | |
| [36] Fabrication and Characterization of Heusler Alloy Thin Films and Nanowires | VARGA, Michal | |
| [72] Influence of Chemical Doping on Magnetic Characteristic of ErMn _{1-x} Fe _x O ₃ Multiferroic System | Dr MIHALIK, Matúš | |
| [38] Glass-coated Ni ₅₀ Mn ₃₇ Sb ₁₃ Microwires: Synthesis and Magneto-Structural Characterization | VARGA, Michal | |
| [22] Magnetic Properties and Magnetization Processes in the SMCs Influenced by the Mechanofusion Parameters | TKÁČ, Martin | |
| [92] The Influence of Anisotropies on the Electric Voltage Induced in Microwires | ELIÁŠ, Martin | |
| [60] Experimental Study of Magnetic Nanoparticles for Magnetic Separation DNA/RNA | BARUTIAK, Michael | |
| [57] Magnetic Properties of CoFe ₂ O ₄ Octapods | FABRICIOVÁ, Žaneta | |
| [11] Modelling of the Hysteresis Originating from Reversible Magnetization Processes and the Accompanying Energy Losses | BIRČÁKOVÁ, Zuzana | |
| [67] A Study on the Method to improve Performance through Variable Stopping Power of Permanent Magnet Hybrid Electronic Brakes | LEE, Jae-Kwang | |
| [64] Magnetic Analysis of Fe-based Nanoparticles for Biomedical Applications | Dr SZŮCSOVÁ, Jaroslava | |
| [82] Onset of Magnetization Reversal in Glass-covered CoSiB Microwires | KRAVČÁK, Jozef | |
| [51] Time-Resolved Observations of a Surface Domain Wall Pinning in Amorphous Glass-Coated Microwires | RICHTER, Kornel | |
| [59] High Frequency of Symmetric/Asymmetric Ferromagnetic Coupled Bilayers | PEREZ DEL REAL, Rafael | |
| [35] Theoretical and Experimental Searching for New Free Rare-earths Permanent Magnets | Dr DZUBINSKA, Andrea | |
| [95] Thermal Stability of Soft Magnetic Fe-based Alloy studied by In-situ High-Energy Synchrotron Radiation | Ms KAUR, Ravneet | |
| [94] Thermally Activated Relaxation of Stress-Induced Anisotropy in VITROPERM-800 | Dr GIRMAN, Vladimír | |
| [75] FMR Study of ZnFe ₂ O ₄ Thin Films in varied Growth Environments | BOHRA, Murtaza | |
| [70] Eddy Current Testing with TMR Probes for Enhanced Quality Control of Arc Stud Welds | CARDOSO, Susana | |
| [37] Low-frequency Soft Magnetic Composites produced from BN and Al ₂ O ₃ Mechanocoated NiFeMo Ferromagnetic Alloy | MACIASZEK, Robert | |
| [17] Influence of Chemical Composition Change on Ni ₂ NbSn – Heusler Ferromagnetic Superconductor | NALEVANKO, Samuel | |
| [29] Inductance Calculation of Small Spoke Motor using Equivalent Circuit | LEE, Jeong Jong | |

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| [58] A Study on the Design Method to improve Precision and Efficiency for Servo Motor by Slotless Stator | LEE, Jae-Kwang | |
| [54] Domain Wall Imaging in Rapidly Solidified Amorphous Submicronic Wires | Dr ÓVÁRI, Tibor-Adrian | |

Wednesday, 26 June 2024

POSTER: Session 2 - MINERVA (16:00 - 18:00)

-Conveners: Jeffrey McCord

| [id] title | presenter | board |
|---|------------------------------|-------|
| [84] Rotating Fluxgate Magnetometer for Precise Estimation of Fields Below 1nT | DRESSLER, Michal | |
| [42] Novel Fluxgate Sensor Incorporating Twisted Glass-Coated Microwires | LUPU, Nicoleta | |
| [13] Anisotropic Magnetocaloric Properties of Heusler Microwire Ni ₅₃ Fe ₂₀ Ga ₂₇ for Low and High Magnetic Field Change | HENNEL, Miroslav | |
| [9] Analysis of PHMR Sensor Characteristics Affected by Applied Current and Measurement Direction using Multi-Electrode Switch System | LEE, Sunghyeok | |
| [69] Contactless Sensors in Automotive | ONUFER, Samuel | |
| [77] Validation of an Electromagnetic Loop Probe for Real-Time Diagnostic of Near-Field in Electrical Vehicle | JABBAR, Zaid | |
| [44] Temperature Stability of Giant Magnetoimpedance Effect in Tensile Stress-Annealed VITROVAC 6025 I50 Ribbon | JAKUBČIN, Miloš | |
| [93] Quality Monitoring of Glued Joints Using Bistable Microwires | KOMORNÍK, Miroslav | |
| [3] Uncertainty Analysis of Traceable Measurements of Pulsed Magnetic Fields used in Magnetotherapy | ULVR, Michal | |
| [19] AC Current Sensor based on ME Composites Transducers: Resonance Damping, Current Dynamic and Electrostatic Disturbances | Mr FILÂTRE, Raphaël | |
| [53] Specific Lock-in Amplifier for Fluxgate Sensor Testing | PETRUCHA, Vojtěch | |
| [86] Linear Position Sensor with Extended Linearity Range | Prof. RIPKA, Pavel | |
| [26] Assessment of Magnetomechanical Symptoms Caused Near Yield Area for the Purpose of Material Stress Evaluation | GONTARZ, Szymon | |
| [66] Improved Method for Linear Position Sensing through Conductive Wall | Mr PLATIL, Antonin | |
| [68] Novel Power Saving Algorithm for AMR Magnetometer with Fast Settling Feedback Loop | NOVOTNÝ, David | |
| [10] Fabrication and Application of Magnetic-Based Shear Force Sensor | KIM, Hyeji | |
| [12] Utilizing Bistable Glass-coated Microwires for Deformation Monitoring of Metal Structural Members | GALDUN, Ladislav | |
| [52] Magnetic Sensors for Magnetic Communication: a Comparison between GMI and Induction-based Sensors | XU, Miao | |
| [62] New Steel Stress Coupons for Steel Health Monitoring | Prof. HRISTOFOROU, Evangelos | |
| [85] Linear Position Sensor using Magnetically Bistable Microwire | JACKO, Patrik | |
| [23] High Accuracy Vehicle Speed Estimation Using Dual-Axis Magneto-Impedance Sensors | YAO, Ruixuan | |
| [73] Dynamics of a Single Domain Wall Driven by an Alternating Magnetic Field in Bistable Microwire | Dr ONUFER, Jozef | |
| [80] Coercivity Measurements of Complex-shaped Soft Magnetic Parts According to IEC 60404-7:2019 | KUHNT, Markus | |