**FORM NUM: 500.1.03**

# Academic Personnel Short Profile / Short CV

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|---|---|
| **University:** | University of Nicosia |
| **Surname:** | Alaeddine |
| **Name:** | Marios |
| **Rank/Position:** | Adjunct Faculty |
| **Faculty:** | Sciences and Engineering |
| **Department:** | Engineering |
| **Scientific Domain: *** | Mechanical Engineering |

** Field of Specialization*

## Academic qualifications (list by highest qualification)

| Qualification | Year | Awarding Institution | Department | Thesis title (Optional Entry) |
|---|---|---|---|---|
| Ph.D. | 2004 | Tufts University | Mechanical Engineering | Mesh free Modeling and Control in Thermal Processing of Materials |
| M.S. | 2001 | Tufts University | Mechanical Engineering | Controllability and Observability by Green-Galerkin Methods |
| B.S. | 1999 | Cleveland State University | Mechanical Engineering | Energy from Vertical Axis Wind Turbines |

| Employment history in Academic Institutions/Research Centers–List by the three (3) most recent | | | | |
|---|---|---|---|---|
| Period of employment | | Employer | Location | Position |
| From | To | | | |
| 2020 | Present | University of Nicosia | Nicosia | Adjunct Faculty |
| 2008 | 2019 | Intercollege Larnaca | Larnaca | Assistant Professor |
| 2004 | 2006 | Harvard University | Boston, MA | Research Scientist |

| Key ***refereed*** journal papers, monographs, books,conference publicationsetc.List the five (5) more recent and other five (5) selected–(max total 10) | | | | | | |
|---|---|---|---|---|---|---|
| **Ref. Number** | **Year** | **Title** | **Other authors** | **Journaland Publisher / Conference** | **Vol.** | **Pages** |
| 1 | 2004 | Distributed Parameter Thermal Controllability: a Numerical Method for Solving the Inverse Heat Conduction Problem | C.C. Doumanidis | International Journal for Numerical Methods in Engineering | 59 (7) | 945 – 961 |
| 2 | 2004 | Distributed Parameter Thermal System Control and Observation by Green-Galerkin Methods | C. C. Doumanidis | International Journal for Numerical Methods in Engineering | 61 (11) | 1921 – 1937 |
| 3 | 2005 | Modeling the Melting and Dissolution Stages During Thermal Processing of Intermetallic Coatings from Layered Precursors | R. Ranganathan, T. Ando, and C.C. Doumanidis | ASME Journal of Manufacturing Science and Engineering | 127 (1) | 148 – 156 |
| 4 | 2006 | Modeling the Intermetallic Coating Growth During Reactive Thermal Processing of Layered Precursors | R. Ranganathan, T. Ando, and C.C. Doumanidis | Surface and Coatings Technology | 200 (18 – 19) | 5181 – 5192 |
| 5 | 2007 | In-Process Modeling and Control of the Microstructure Growth in Production of Intermetallic Coatings from Layered Precursors | R. Ranganathan, T. Ando, and C.C. Doumanidis | ASME Journal of Dynamic Systems, Measurement and Control | 129 (1) | 56 – 65 |
| 6 | 2002 | Distributed Parameter Thermal Controllability - the | C. C. Doumanidis | American Automatic Control Conference | | |

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|---|---|---|---|---|---|---|
| | | Inverse Heat Conduction Problem in Materials Processing | | (Alaska, USA) | | |
| 7 | 2003 | Simulation of the Temperature and Extent of Nickel Dissolution During the Reactive Fabrication of Nickel Aluminide Coatings by Rapid Heating of Plated Precursors | R. Ranganathan, T. Ando, C.C. Doumanidis, P.Y. Wong, C.A.Blue | Materials Research Society Symposium | 750 | 431 – 436 |
| 8 | 2004 | Thermal and Mass Modeling of the Laser-Point Sealing Process in MEMS Packaging | J. Zou, R. Ranganathan, T. Ando, C.C. Doumanidis, P.Y. Wong | ASME Heat Transfer/Fluids Engineering Summer Conference (Charlotte, North Carolina, USA) | | |
| 9 | 2004 | Phase Selection in the Reactive Fabrication of Nickel Aluminide Coatings by Rapid Heating of Plated Precursors | R. Ranganathan, T. Ando, C.C. Doumanidis, P.Y. Wong | 6th International Conference on Frontiers of Design and Manufacturing, Xi'an, China | | |
| 10 | 2006 | The Brain's Notch Filter: A Time-Varying Dynamic Aspect of Intracranial Pressure | J. Madsen, S. Dombrowski, M. Egnor, M. Luciano, E. McCormack, M. Wagshul, R. Zou | Annual Meeting of the American Society of Pediatric Neurosurgeons, San Francisco, U.S.A | | |

| Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10)(Optional Entry) | | | |
|---|---|---|---|
| **Ref. Number** | **Date** | **Title** | **Awarded by:** |
| 1 | 2005 | Mesh-Free Modeling and Control of Thermal/Diffusion Fields Created by Nano-Sources | BEST PAPER AWARD: 3rd International Symposium on Nanomanufacturing, Limassol, Cyprus |
| 2 | 2002 | Distributed Parameter Thermal Controllability Through the Green-Galerkin Method: a One-Dimensional Optimization Case Study | INVITED PAPER: IEEE 10th Mediterranean Conference on Control and Automation, Lisbon, Portugal |
| 3 | 2003 | Numerical Stability of the Green-Galerkin Thermal Control Method in Infinite-Dimensional Dynamic Systems | INVITED PAPER: IEEE 11th Mediterranean Conference on Control and Automation, Rhodes, Greece |
| 4 | 2005 | Infinite-Dimensional Thermal Observability in Materials Processing | INVITED PAPER: International Symposium on Intelligent Control and 13th IEEE Mediterranean Conference on Control and Automation, Limassol, Cyprus |