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علائق شخصی

- 1) فوتبال
- 2) مطالعه

عضویت در مجامع ملی و بین المللی

- 1) انجمن مهندسی مکانیک ایران، عضو، ملی، 1383/10/12، 1111/01/01
- 2) انجمن مهندسی هوا فضا کانادا، عضو، ملی، 1369/10/11، 1111/01/01
- 3) انجمن مهندسی مکانیک امریکا، عضو، ملی، 1363/10/11، 1111/01/01

مقالات چاپ شده در نشریات بین المللی

- 1) Basaeri, Hamid, Aghil Yousefi-Koma, Mohammad Reza Zakerzadeh, and Seyed Saeid Mohtasebi. "Experimental study of a bio-inspired robotic morphing wing mechanism actuated by shape memory alloy wires." *Mechatronics* 24, no. 0957-4158 (2014): 1231-1241.
- 2) Maani Miandoab, Ehsan, Aghil Yousefi-Koma, and Hossein Nejat Pishkenari. "Poly silicon nanobeam model based on strain gradient theory." *Mechanics Research Communications* 62, no. 2014 (2014): 83-88.
- 3) Maani Miandoab, Ehsan, Hossein Nejat Pishkenari, and Aghil Yousefi-Koma. "Dynamic Analysis of Electrostatically Actuated Nanobeam Based on Strain Gradient Theory." *International Journal of Structural Stability and Dynamics* 15, no. 4 (2014): 1-23.
- 4) Maani Miandoab, Ehsan, Hossein Nejat Pishkenari, Aghil Yousefi-Koma, and Hamid Hoorzad. "Dielectric response of II–VI semiconductor core–shell ensembles: Study of the lossless optical condition." *PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES* 63, no. 2014 (2014): 229-234.
- 5) Maani Miandoab, Ehsan, Hossein Nejat Pishkenari, Aghil Yousefi-Koma, and Farid Tajaddodianfar. "Chaos prediction in MEMS-NEMS resonators." *International Journal of Engineering Science* 82, no. 2014 (2014): 74-83.
- 6) Maani Miandoab, Ehsan, Aghil Yousefi-Koma, Hossein Nejat Pishkenari, and Mohammad Fathi. "Nano-resonator frequency response based on strain gradient theory." *Journal of Physics D - Applied Physics* 47, no. 36 (2014): 365303.
- 7) Maani Miandoab, Ehsan, Aghil Yousefi-Koma, and Hossein Nejat Pishkenari. "Study of nonlinear dynamics and chaos in MEMS/NEMS resonators." *Communications in Nonlinear Science and Numerical Simulation* 19, no. 8 (2014): 1-12.
- 8) Rapel, Hossein, Aghil Yousefi-Koma, Jalil Jamali, and AKO Bahari. "Numerical Time-Domain Modeling of Lamb Wave Propagation Using Elastodynamic Finite Integration Technique." *Shock and Vibration* 2014, no. 10 (2014): 1-6.
- 9) Maani Miandoab, Ehsan, Aghil Yousefi-Koma, and Hossein Nejat Pishkenari. "Nonlocal and strain gradient based model for electrostatically actuated silicon nano-beams." *Microsystem Technologies* 17, no. 3 (2014): 429-437.

10) Soorgee, Mohammad Hossein, Clifford J Lissenden, Joseph L Rose, and Aghil Yousefi-Koma. "Defect sensitivity of piezoelectric strip transducers based on planar Lamb waves." *Journal of Intelligent Material Systems and Structures* 4, no. 25 (2014): 472-483.

11) Nikkhah Bahrami, Mansor, Aghil Yousefi-Koma, and . "Modeling and nonlinear analysis of a micro-switch under electrostatic and piezoelectric excitations with curvature and piezoelectric nonlinearities." *Journal of Mechanical Science and Technology* 28, no. 1 (2014): 263-272.

12) Tarvirdizadeh, Bahram, and Aghil Yousefi-Koma. "DYNAMIC OBJECT MANIPULATION BY A FLEXIBLE ROBOTIC ARM THEORY AND EXPERIMENT." *International Journal of Robotics and Automation* 3, no. 27 (2012): 263-275.

13) , , Aghil Yousefi-Koma, and Bahram Tarvirdizadeh. "Nonlinear trajectory control of a flapping wing micro aerial vehicle." *Aircraft Engineering and Aerospace Technology* 1, no. 84 (2012): 58-65.

14) , M Kabir, Arash Khajeh , E Abdi Aghdam , and Aghil Yousefi-Koma. "Modified Kudryashov method for finding exact solitary wave solutions of higher - order nonlinear equations." *Mathematical Methods in the Applied Sciences* 34, no. 2 (2010): 219-213.

15) , Arash khaje, Aghil Yousefi-Koma, and M kabir . "New Exact and Explicit travelling wave solutions for the coupled higgs equation and a nonlinear variant of the PHI - four equation." *Mathematical Methods in the Applied Sciences* 11, no. 9 (2010): 741 - 725.

16) , arash khaje, Aghil Yousefi-Koma, m kabir , and maryam vahdat . "Exact Travelling Wave Solutions For Some Nonlinear Equations Arising in Biology and Engineering." *World Applied Sciences Journal* 9, no. 12 (2010): 1442-1433.

17) , Ali Reza Mehrabian, and Aghil Yousefi-Koma. "A novel technique for optimal placement of piezoelectric actuators on smart structures." *JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS* 384, no. 1 (2009): 12-23.

18) Yousefi-Koma, Aghil. "Development and Application of an Active Control System for Smart Structures Using Wave Method." *JOURNAL OF VIBRATION AND CONTROL* 11, no. 8 (2005): 1065-1043.

مقالات چاپ شده در نشریات داخلی

1) sadedel, majid, Aghil Yousefi-Koma, and Faezeh Iranmanesh. "Analytical Dynamic Modelling of Heel-off and Toe-off Motions for a 2D Humanoid Robot." *Journal of computational applied mechanics* 46, no. 2 (2015): 243-256.

همایش‌های بین المللی

1) Basaeri, Hamid, Aghil Yousefi-Koma, Mohammad Reza Zakerzadeh, and Seyed Saeid Mohtasebi. "Hysteresis Modeling and Experimental Validation of a Mechanism Actuated by Shape Memory Alloy Wires." 2nd ICROM International Conference on Robotics and Mechatronics (ICROM 2014), Tehran, October 15-17, 2014 .

2) Habibi, Hamed, and Aghil Yousefi-Koma. "Increase of Extracted Energy of a Wind Turbine in Partial load Operation." The 10th international Energy Conference (IEC 2014), Tehran, August 26-27, 2014 .

3) Habibi, Hamed, and Aghil Yousefi-Koma. "Wind Turbine Integrated Control during Full Load Operation." The 10th international Energy Conference (IEC 2014), Tehran, August 26-27, 2014 .

Cooperations International Workshops on Electrical and Computer Engineering Subfields, İSTANBUL, August 22-23, 2014 .
Mohtasebi. "Position Control of Shape Memory Alloy Actuators Using a Phenomenological Hysteresis Model." Scientific
4) Basaeri, Hamid, Aghil Yousefi-Koma, Mohammad Reza Zakerzadeh, and Seyed Saied

5) Mahdavian, Mohammad, Aghil Yousefi-Koma, and Majid Khadiv. "Trajectory Planning and Minimum-Norm Inverse Kinematics Solution for a Humanoid Redundant Arm." The Bi-Annual International Conference on Experimental Solid Mechanics and Dynamics (X-Mech-2014), Tehran, February 18-19, 2014 .

6) Afshari, AAA, Aghil Yousefi-Koma, and Hamid Basaeri. "Design, Modeling, and Fabrication of a Bio-Inspired Shark Robot Fish Dorsal Fin Actuated By SMA Wires." The Bi-Annual International Conference on Experimental Solid Mechanics and Dynamics (X-Mech-2014), Tehran, February 18-19, 2014 .

- 7) Daneshpajoo, HHH, Aghil Yousefi-Koma, and Hamid Basaeri. "Modeling and Validation of Shape Memory Polymer Thermomechanical Behavior." The Bi-Annual International Conference on Experimental Solid Mechanics and Dynamics (X-Mech-2014), Tehran, February 18-19, 2014 .
- 8) Rapel, Hossein, Aghil Yousefi-Koma, and Hamid Basaeri. "Shape Control of a Bio-Inspired Flexible Tail by a Shape Memory Alloy Actuator: an Experimental Study." The Bi-Annual International Conference on Experimental Solid Mechanics and Dynamics (X-Mech-2014), Tehran, February 18-19, 2014 .
- 9) Rastegari, Mojtaba, Aghil Yousefi-Koma, and S.Sadeq Saleh. "Design and Fabrication of a PVDF-based Accelerometer." The Bi-Annual International Conference on Experimental Solid Mechanics and Dynamics (X-Mech-2014), Tehran, February 18-19, 2014 .
- 10) abachizadeh, mahdi, Mohammad reza Haeri yazdi, and Aghil Yousefi-Koma. "optimal tuning of PID controllers using artificial bee colony algorithm." 2010 IEEE/ASME international conference on advanced intelligent mechatronics, Montreal, July 6-9, 2010 .
- 11) Yousefi-Koma, Aghil, Bahram Tarvirdizadeh, and . "Modeling and Dynamical Analysis of a Flexible Arm and Object Interaction in Impact." 17th Annual (International Conference on Mechanical Engineering, Tehran, May 19-21, 2009 .
- 12) Yousefi-Koma, Aghil, , and Bahram Tarvirdizadeh. "Integrated Controller Design for Hybrid Dynamical Systems." 17th Annual International Conference on Mechanical Engineering, Tehran, May 19-21, 2009 .
- 13) , , Aghil Yousefi-Koma, and Bahram Tarvirdizadeh. "Performance Control of Hybrid dynamical Systems." 16th Annual International Conference on Mechanical Engineering, Kerman, May 14-16, 2008 .
- 14) , , Aghil Yousefi-Koma, and Mahmoud Mosavi Mashhadi. "Neural Shape Control of Smart Beam With Piezoelectric Actuators." International Symposium on Mechatronics and its Applications (ISMA07, Sharjah, March 27-29, 2007 .
- 15) Tarvirdizadeh, Bahram, Aghil Yousefi-Koma, and . "Control of a Micro Aerial Vehicle (MAV) with Piezo electric Actuator Systems." Smart Materials and Structures, Toronto, October 12-13, 2006 .
- 16) Ghazavi, Seyed asad allah , Mahmoud Mosavi Mashhadi, Aghil Yousefi-Koma, and . "Magneto -Rheological Fluid Dampers Modelin: Numerical And Experimental." The 17th IASTED international conference on Modeling and simulation, Montreal, September 24-26, 2006 .
- 17) Tarvirdizadeh, Bahram, Aghil Yousefi-Koma, , and . "An Analytical Model of a Flopping-Wing Micro Aerial Vehicle." 8th Biennial ASME Conference on Engineering Systems Design and Analysis, Torino, July 4-7, 2006 .
- 18) , , and Aghil Yousefi-Koma. "Improve Hunting of a Railway Vehicle Using Semi-Active Primary Suspension." 8th Biennial ASME Conference on Engineering Systems Design and Analysis, Torino, July 4-7, 2006 .
- 19) Yousefi-Koma, Aghil. "H Loop-Shaping and Mixed -Sensitivity Control of Smart Beam with Piezoelectric Actuators." 8th Biennial ASME Conference on Engineering Systems Design and Analysis, Torino, July 4-7, 2006 .
- 20) Yousefi-Koma, Aghil, Bahram Tarvirdizadeh, , and . "A Mathematical Model for a Flapping Wing Micro Aerial Vehicle." Proceedings of the 17t IASTED International Conference Modeling and Simulation, Montreal, May 24-26, 2006 .
- of a Flapping-Wing Micro Aerial Vehicle." 14th Annual Conference of Mechanical Engineering, Isfahan, May 17-19, 2006 .
- 21) Tarvirdizadeh, Bahram, Aghil Yousefi-Koma, , and حسام ملکی . "Modelling
- 22) , , Aghil Yousefi-Koma, , and Bahram Tarvirdizadeh. "Robust Control of a Smart beam with Piezoelectric Actuators." 14th Annual International Mechanical Engineering Conference, Isfahan, May 9-9, 2006 .
- 23) , , Aghil Yousefi-Koma, and . "Active Control of Train Bogies with MR Dampers." SPIE Smart Structures and Materials, San Diego, March 26-2, 2006 .

24) مهدویان، محمد، عقیل یوسفی کما، و مصطفی کریمیان. "همایش ISME." تحلیل و بهینه سازی پیشرانیش ربات ماهی مقلد ماهی تن و تاثیر شکل دم بر آن. تهران، اردیبهشت 4-2، 1393.

همایش‌های داخلی

1) قاسمی، امیر مسعود، عقیل یوسفی کما، محمد مهدویان و علی طاهری فر. "بررسی سینماتیکی یک نمونه ربات برون پوش بالا تنه در شرایط کاری مختلف." همایش ISME، تهران، اردیبهشت 4-2، 1393.

2) ، سيدحسين سيدمحمدی، عقيل يوسفی كماء، بهزاد آسايی، بهزاد كريمی، روح اله اقنوت و سيدمجيد پورحسينی . "تحليل فرآيند ساخت يك موتورسيكلت هيبريد برقی." نهمين كنفرانس مهندسی ساخت و توليد ايران، بيرجند، اسفند 13-15، 1387.

3) جلالی بيدگلی، حامد، بهزاد آسايی، مهدی حبيبي دوست، عقيل يوسفی كماء و طناز اكبرپور. "استراتژیهای كنترلی و شبیه سازی موتورسيكلت هيبريد برقی." دومين كنفرانس بين المللی ساليانه صنعت الكترونيك خودرو، تهران، بهمن 16-17، 1387.