

## PERSONAL INFORMATION

Alireza KERAMAT

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Department of Civil and Environmental Engineering (CEE)  
The Hong Kong Polytechnic University (HK PolyU),  
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Current Work Profile: <https://research.polyu.edu.hk/en/persons/alireza-keramat>

Google Scholar Profile: [Alireza Keramat - Google Scholar](#), h-Index:16, Citations: 905

Scopus Profile: [Alireza Keramat - Scopus Author ID: 36552546000](#), h-Index:13, Citations: 600

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## WORK EXPERIENCE

*The Hong Kong Polytechnic University (HK PolyU), Hong Kong*

*Research Assistant Professor, Dec. 2020 – present*

- Teaching (Fluid Mechanics)
- Principle Investigator of two funded projects
- Supervising MSc and PhD students
- Writing academic and industrial proposals
- Various department service responsibilities
- Publishing in top journals

*Jundi-Shapur University of Technology (JSU), Iran*

*Assistant Professor, Sep. 2012 – Sep. 2016; Sep. 2017 – Nov. 2020*

- Teaching several subjects at the undergraduate and graduate level
- Supervising 15 MSc and 2 PhD students
- Writing various academic and industrial proposals
- Publishing in top journals

*The University of Alberta, Canada*

*Visiting Assistant Professor, Jul. 2019 – Jul. 2020*

- Collaboration with Civil and Environmental and Mechanical Engineering Departments
- Multidisciplinary research on Biomedical Engineering projects

*The Hong Kong University of Science and Technology (HKUST), Hong Kong*

*Research Associate, Sep. 2016 – Sep. 2017*

- Researcher for [Smart Urban Water Supply Systems project](#) (Coordinator: Prof. Ghidaoui)
  - Teaching two subjects on modeling, design, and management of hydraulic systems
  - Collaboration with the Water Supply Department of Hong Kong
  - Publishing in top journals
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## GRANTS

*Only funded projects in my present career in HK PolyU are listed. Other internal projects in my previous career (JSU) to supervise MSC students are not included.*

### *As Principle Investigator*

*Wave-current-structure interaction in coastal and ocean areas: numerical modeling and applications within the Greater Bay Area (GBA)*

- Awarded funding: HK\$ 250,000 (£ 26,118)
- Project Period: 1 May 2021 - 30 Apr 2023
- Main Funding Body: the University Grants Committee – PolyU

*Modeling Transient Pulse Waves and Anomaly Identification in the Arterial Network*

- Awarded funding: HK\$ 573,100 (£ 59,871)
- Project Period: 22 Mar 2022 - 21 Mar 2025
- Main Funding Body: the University Grants Committee – PolyU, Joint Postdoc Scheme with Non-local Institutions

### *As Co-Investigator*

*Research on Urban Flash Floods under Climate Change*

- Awarded funding: HK\$ 500,000 (£ 52,235)
- Project Period: 1 Jan 2022 - 31 Dec 2024
- Main Funding Body: the University Grants Committee - PolyU

*Feasibility Study of Hybrid Floating Solar-Wave Converter Hub (FloSWACH) Towards Sustainable Energy Development and Its Applications in Hong Kong*

- Awarded funding: HK\$ 1,200,000 (£ 125,363)
  - Project Period: 1 Jan 2023 - 31 Dec 2025
  - Main Funding Body: Research Institute for Sustainable Urban Development (RISUD) – PolyU
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## EDUCATION

*The Eindhoven University of Technology, The Netherlands*

*Visiting PhD student, June 2009 – June 2010*

- Department of Mathematics and Computer Science
- Adviser: Dr. Arris S. Tijsseling
- Major duty: Research on Water hammer in Viscoelastic Pipes considering Column Separation and Fluid-Structure Interaction
- Courses passed: Solution Methods in Computational Mechanics, Nonlinear Material Mechanics, Coupled Problems in Dynamics: Vibro-acoustics

*Shahrood University of Technology, Shahrood, Iran*

*PhD in Civil Engineering, January 2007 – 6 January 2011*

- Thesis title: Fluid-Structure Interaction in Viscoelastic Pipe Systems with Column Separations
- Adviser: Prof. Ahmad Ahmadi
- Courses passed: Advanced Computational Hydraulic, Advanced Finite Elements Method, Nonlinear Finite Element Method, Unsteady Flows, Computational Fluid Dynamics, Sediment Transport

*Shahid Chamran University of Ahvaz, Iran*

*MSc. of Hydraulic Structures, September 2003 – January 2006*

- Ranked **First** among all classmates in the program
- Thesis title: Dynamic Analysis of Fluid-Filled Piping Systems
- Adviser: Prof. Hossein Mohammad V. Samani
- Courses passed: Hydrodynamics, Design of Hydraulic Structures, Advance Engineering Mathematics, Soil and Rockfill Dams, Advanced Hydraulics, Computational Hydraulic, Theory of Elasticity and Plasticity, Finite Elements Method

*Shahid Chamran University of Ahvaz, Iran*

*BSc. of Civil Engineering, September 1999 – September 2003*

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## **TEACHING EXPERIENCE**

*Undergraduate level (in HK PolyU, HKUST, JSU)*

- Fluid mechanics (11 semesters, JSU, HK PolyU)
- Water Supply and Sewer Pipe Networks Design (5 semesters, JSU)
- Numerical methods (4 semesters, JSU)
- Open Channel Flow Hydraulics (3 semesters, JSU)
- Dynamics of Structures (2 semesters, JSU)
- Water Supply and Sewerage Engineering (1 semester, HK PolyU)
- Advanced Computer Programming (1 semester, JSU)
- Modeling Physical Processes in Fluids (1 semester, HKUST, co-lecturer)
- Municipal Hydraulic System Design and Management (1 semester, HKUST, co-lecturer)

*Graduate level (in JSU)*

- Finite Element Method (5 semesters, JSU)
  - Hydrodynamics (4 semesters, JSU)
  - Advanced Hydraulics (4 semesters, JSU)
  - Computational Hydraulics (4 semesters, JSU)
  - Design of Hydraulic structures (2 semesters, JSU)
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## **ACADEMIC AWARDS AND HONORS**

*Editor's Choice article in the Journal of Hydraulic Engineering in the ASCE Library*

The paper "Transient Energy Analysis in Water-Filled Viscoelastic Pipelines", published in the Journal of Hydraulic Engineering, ASCE (2022) 148(1), was featured as the Editor's choice.

*Scholarship for Visiting Fellowship*

Tokyo Institute of Technology, Mechanical Department, March 2014.

Research topic: Sophistication of buckling of pipes due to water hammer.

*The Hottest Article in the Journal of Fluids and Structures*

The paper "Fluid-structure interaction with pipe-wall viscoelasticity during water hammer", published in the Journal of Fluids and Structures 28 (2012) 434–455, ranked third for the most downloaded paper in the full year 2012 (January to December)

*Scholarship for Visiting PhD Student*

Ministry of Science, Research and Technology, Iran, June 2009 – June 2010

Research topic: Fluid-Structure Interaction and Column Separations in Viscoelastic Pipe Systems

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## **ACADEMIC SUPERVISION**

Number of student-theses supervised	<u>Undergraduate</u>	<u>Masters</u>	<u>PhD</u>
• Completed (last 3 years)	2	1	1
• Completed	>10	15	3
• In progress	2	1	1

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## RESEARCH INTERESTS

### Inverse problems, optimization, signal processing and uncertainty quantification

- Inverse problems in water supply management
- Defect detection in pipe systems
- Optimization in water supply systems
- Bayesian Modeling, Kalman Filter
- Uncertainty quantification
- Transient pipe-flow modeling in the time and frequency domain

### Material and Structural Engineering

- Modeling Viscoelastic materials
- Wave propagation in solids
- Fluid-Structure Interaction (FSI)
- Finite Element Method for Structural Dynamics

### Hemodynamics and Anomaly Detection

- Blood Flow Simulation in the Arterial Network
- Arterial Network Assessment and Anomaly Identification (Arteriosclerosis, Stenosis, Aneurysm)

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## COMPUTER SKILLS

### Programming, Coding:

- Advanced: MATLAB, MATHEMATICA, Python, C++, Fortran, VBA
- Intermediate: Java, JavaScript, R

### Engineering Software:

- Advanced: Open Foam
- Intermediate: Abaqus

### MS Office, Spreadsheets, Operating Systems:

- Advanced: Word, Excel, Outlook, PowerPoint, OneNote, Google Sheets, Windows, macOS, Linux

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## PEER-REVIEWED JOURNAL ARTICLES

*I have a total of 49 journal papers, consisting of 28 in top journals and 21 secondary publications, as listed below.*

### Publications in Top Category Journals

1. Duan, H.F., **Keramat, A.\*** (2022). Uncertainty Quantification of Transient-based Leakage Identification: A Frequency Domain Framework. *Water Resources Research*, (IF: 6.16, JCR: Q1), e2022WR032512. [Link](#).
2. Asghari, V., Kazemi, M.H., Duan, H.F., Hsu, S.C., **Keramat, A.\*** (2022). Machine learning modeling for spectral transient-based leak detection. *Automation in Construction*, (IF: 10.517, JCR:Q1), In press.
3. Geronimo, J.F., **Keramat, A.\***, Alastruey, J., Duan, H., F. (2022). Computational modelling and application of mechanical waves to detect arterial network anomalies: diagnosis of common carotid stenosis, *Computer Methods and Programs in Biomedicine*, (IF:7.027, JCR: Q1), 107213. [Link](#).

4. Pan, B., Duan, H. F.\*, **Keramat, A.**, Meniconi, S., & Brunone, B. (2022). Efficient pipe burst detection in tree-shape water distribution networks using forward-backward transient analysis. *Water Resources Research*, (IF:6.16, JCR: Q1), e2022WR033465. [Link](#).
5. Zhang, Y., Duan, H. F.\*, & **Keramat, A.** (2022). CFD-aided study on transient wave-blockage interaction in a pressurized fluid pipeline. *Engineering Applications of Computational Fluid Mechanics* (IF:8.391, JCR: Q1), 16(1), 1957-1973. [Link](#).
6. Brunone, B., Maietta, F., Capponi, C., & **Keramat, A.**, Meniconi, S. (2022). A review of physical experiments for leak detection in water pipes through transient tests for addressing future research. *Journal of Hydraulic Research* (IF:2.753, top in Hydraulics, JCR: Q2), 34, 077108. [Link](#).
7. Hou, Q., Sun, Z., He, L., & **Keramat, A.\*** (2022). Orthogonal grid physics-informed neural networks: A neural network based simulation tool for advection-diffusion-reaction problems. *Physics of Fluids* (IF:4.98, JCR: Q1), 34, 077108. [Link](#).
8. Hou, Q.\*, Miao, C., Chen, S., Sun, Z., & **Keramat, A.\*** (2022). A Lagrangian particle model on GPU for contaminant transport in groundwater. *Computational Particle Mechanics*, Springer (IF:3.11, JCR: Q1), 1-15. [Link](#).
9. Deng, T., Duan, H.-F., & **Keramat, A.** (2022). Spatiotemporal characterization and forecasting of coastal water quality in the semi-enclosed Tolo Harbour based on machine learning and EKC analysis. *Engineering Applications of Computational Fluid Mechanics* (IF:8.391, JCR: Q1), 16(1), 694–712. [Link](#).
10. Pan, B., **Keramat, A.**, She, Y., & Duan, H.-F. (2022). A novel leak localization method using forward and backward transient characteristics. *Measurement: Journal of the International Measurement Confederation* (IF:5.131, JCR: Q1), 194, 111065. [Link](#).
11. **Keramat, A.**, Duan, H.-F., Pan, B., & Hou, Q. (2022). Gradient-based optimization for spectral-based multiple-leak identification. *Mechanical Systems and Signal Processing* (IF:8.934, JCR: Q1), 171, 108840. [Link](#).
12. Zhang, Y., Duan, H. F., **Keramat, A.** & Che, T. C., (2022). On the leak-induced transient wave reflection and dominance analysis in water pipelines. *Mechanical Systems and Signal Processing* (IF:8.934, JCR: Q1), 167, 108512. [Link](#).
13. Pan, B., **Keramat, A.**, Capponi, C., Meniconi, S., Brunone, B. & Duan, H. F., (2022) Transient Energy Analysis in Water-Filled Viscoelastic Pipelines. *Journal of Hydraulic Engineering, ASCE* (IF:2.817, top in Hydraulics, JCR: Q2), 148(1), 04021051. (Selected as editor's choice). [Link](#).
14. **Keramat, A.**, and Duan, H.F., (2021), Spectral-based pipeline leak detection using a single spatial measurement. *Mechanical Systems and Signal Processing* (IF:8.934, JCR: Q1), 161, 107940. [Link](#).
15. **Keramat, A.\***, Karney, B., Ghidaoui, M., Wang, X., (2021) Transient-based leak detection in the frequency domain considering fluid-structure interaction and viscoelasticity, *Mechanical Systems and Signal Processing* (IF:8.934, JCR: Q1), 153, 107500. [Link](#).
16. **Keramat, A.\***, Fathi-Moghadam, M., Zanganeh, R., Rahmanshahi, M., Tijsseling, A.S., Jabbari, E., (2020) Experimental investigation of transients-induced fluid-structure interaction in a pipeline with multiple-axial supports, *Journal of Fluids and Structures* (IF:3.75, JCR: Q1), 93, 102848. [Link](#).
17. Karimian Aliabadi H, Ahmadi A, **Keramat A.\*** (2020) Frequency response of water hammer with fluid-structure interaction in a viscoelastic pipe. *Mechanical Systems and Signal Processing*, (IF:8.934, JCR: Q1), 144, 106848. [Link](#).

18. **Keramat, A.\***, Louati, M., Wang, X., Meniconi, S., Brunone, B., Ghidaoui, M.S., (2019) Objective Functions for Transient-Based Pipeline Leakage Detection in a Noisy Environment: Least Square and Matched-Filter. *Journal of Water Resources Planning and Management, ASCE (IF:3.537, JCR: Q1)*. 145(10). [Link](#).
19. Wang, X., Lin, J., **Keramat, A.**, Ghidaoui, M.S., Meniconi, S., (2019) Brunone, B., Matched-field processing for leak localization in a viscoelastic pipe: An experimental study. *Journal of Mechanical Systems and Signal Processing, (IF:8.934, JCR: Q1)*, 124, 459–478. [Link](#).
20. **Keramat, A.\***, Ghidaoui, M., Wang, X., and Louati, M. (2018) Cramer-Rao lower bound for performance analysis of leak detection. *Journal of Hydraulic Engineering, ASCE (IF:2.817, top in Hydraulics, JCR: Q2)*. [Link](#).
21. Zanganeh, R., Jabbari, E., Tijsseling, A., **Keramat, A.**, (2020) Fluid-Structure Interaction in Transient-Based Extended-Defect Detection of Pipe Walls. *Journal of Hydraulic Engineering, ASCE, (IF:2.817, top in Hydraulics, JCR: Q2)*, 146(4). [Link](#).
22. Fatahi-Alkouhi, R., Lashkar-Ara, B., **Keramat, A.**, (2019) On the measurement of ram-pump power by changing in water hammer pressure wave energy, *Ain Shams Engineering Journal (IF:4.79, JCR: Q1)*, 10(4), 681-693. [Link](#).
23. Zanganeh, R., Ahmadi, A., **Keramat, A.\***, (2015) Fluid-Structure Interaction with Viscoelastic Support Effects during Waterhammer, *Journal of Fluids and Structures (IF:3.75, JCR: Q1)*, 54 215-234. [Link](#).
24. **Keramat, A.\***, Haghghi A., (2014) Straightforward Transient-Based Approach for the Creep Function Determination in Viscoelastic Pipes, *Journal of Hydraulic Engineering, ASCE, (IF:2.817, top in Hydraulics, JCR: Q2)*, 140(12) 04014058.1-04014058.9. [Link](#).
25. **Keramat, A.\***, Heidari Shirazi, K., (2014) Finite element based dynamic analysis of viscoelastic solids using the approximation of Volterra integrals, *Finite Elements in Analysis and Design (IF:2.618, JCR: Q1)*, 86, 89-100. [Link](#).
26. **Keramat, A.\***, Gaffarian Kolahi, A., Ahmadi, A., (2013) Waterhammer modelling of viscoelastic pipes with a time-dependent Poisson's ratio, *Journal of Fluids and Structures (IF:3.75, JCR: Q1)*, 43,164-178. [Link](#).
27. **Keramat, A.\***, Tijsseling, A.S., Hou, Q., Ahmadi, A., (2012) Fluid-structure interaction with pipe-wall viscoelasticity during water hammer, *Journal of Fluids and Structures (IF:3.75, JCR: Q1)*, 28 434–455. [Link](#).
28. Ahmadi, A., **Keramat, A.\***, (2010) Investigation of fluid-structure interaction with various types of junction coupling. *Journal of Fluids and Structures (IF:3.75, JCR: Q1)*, 26, 1123–1141. [Link](#).

#### *Publications in Q2-Q4 quartile or top National Journals*

29. Javadi Orte Cheshme, J., Ahmadi, A., **Keramat, A.** (2022) Modeling of nonlinear viscoelastic creep of a polyethylene pipeline during water hammer. *Urban Water Journal (IF:2.675, JCR: Q3)*, 19(4), 366-47. [Link](#).

30. Khamoushi, A., **Keramat, A.\***, (2020) One-dimensional solution of flow transients in non-Newtonian fluids. *Journal of Pipeline Systems - Engineering and Practice, ASCE*, (IF:1.916, JCR: Q3), 11(3). [Link](#).
31. **Keramat, A.\***, Payesteh, M., Brunone, B., Meniconi, S., (2020) Interdependence of Flow and System Characteristics in Transient Induced Contamination Intrusion in Pipes: Numerical Analysis. *Journal of Hydroinformatics* (IF:3.058, JCR: Q2), IWA publishing. [Link](#).
32. Javadi, O.C.J., Ahmadi, A., **Keramat, A.** & Arniazi, A. (2021). Sensitivity of creep coefficients to the fundamental water hammer period in viscoelastic pipes. *Urban Water Journal* (IF:2.675, JCR: Q2), 18(3), 183-194. [Link](#).
33. Gheitasi, M., Kaboli, H., **Keramat, A.** (2021). Multi-objective optimization of water distribution system: A hybrid evolutionary algorithm. *Journal of Applied Water Engineering and Research* (IF:0.94, JCR: Q4), 9(3), 203-215. [Link](#).
34. **Keramat, A.\***, Zanganeh, R., (2019) Statistical performance analysis of transient-based extended blockage detection in a water supply pipeline. *Journal of Water Supply: Research and Technology* (IF:3.007, JCR: Q2), 68 (5), 346–357. [Link](#).
35. Rahimi F.J., Sabagh Yazdi, S., **Keramat, A.** (2020) Numerical Methods of Visco-elastic Segments on Water Hammer Pressures. *Numerical Methods in Civil Engineering (NMCE)*, 4(4),49-57. [Link](#).
36. Mashak, MA, **Keramat, A.\*** (2019) Fluid-structure interaction due to water-hammer in an pressurized pipeline considering geometrical non-linear behavior of the pipe wall, *Amirkabir Journal of Civil Engineering*, 52(7). [Link](#).
37. Khamoushi, A., **Keramat, A.\***, (2018) An efficient one-dimensional solution for transients in non-Newtonian fluids, *Amirkabir Journal of Civil Engineering*, 52(1). [Link](#).
38. Payesteh, M., **Keramat, A.\***, (2018) Sensitivity Analysis of Hydraulic Parameters on Contaminant Intrusion in Transient Conditions. *Amirkabir Journal of Civil Engineering* 51(5). [Link](#).
39. Khalighi, F., Ahmadi, A., **Keramat, A.**, (2016) Investigation of fluid-structure interaction by explicit central finite difference methods, *International Journal of Engineering-Transactions B: Applications* 29 5, 590-598. [Link](#).
40. Karimian Aliabadi, H., Ahmadi, A., **Keramat, A.**, (2017) Study of Fluid Structure Interaction in viscoelastic pipe based on a new extension of Transfer Matrix Method, *Modares Mechanical Engineering* 16 11, 330-338. [Link](#).
41. Khalighi, F., Ahmadi, A., **Keramat, A.**, (2017) Water hammer simulation by explicit central finite difference methods in staggered grids, *Journal of Computational & Applied Research in Mechanical Engineering*, 6 2, 69-77. [Link](#).
42. Parsasadr, A., Ahmadi, A., **Keramat, A.**, (2016) Waterhammer caused by intermittent pump failure in pipe systems including parallel pump groups, *International Journal of Engineering*, 29, 4, 445-454, [Link](#).
43. Parsasadr, A., Ahmadi, A., **Keramat, A.**, Lashkarara, B., (2015) Waterhammer caused by intermittent and simultaneously pump failure in pipe systems including series pump groups, *Journal of Solid and Fluid Mechanics*, 4, 207-221. [Link](#).

44. Majd, A., Ahmadi, A., **Keramat, A.**, (2016) Investigation of non-Newtonian fluid effects during transient flows in a pipeline, *Strojniški vestnik - Journal of Mechanical Engineering (IF:1.6, JCR: Q3)*, 62 2, 105-115. [Link](#).
45. Zanganeh, R., **Keramat, A.**, Ahmadi, A., (2015) Investigation of the effects of viscoelastic support properties simulated by the generalized Kelvin-Voigt model on the axial vibration of a rod, *Journal of Modeling in Engineering*, 41, 93-113, [Link](#).
46. Bergant, A., Hou, Q., **Keramat, A.\***, Tijsseling, A.S., (2013) Waterhammer tests in a long PVC pipeline with short steel end sections, *Journal of Hydraulic Structures - Scientific Professional Quarterly*, 124-36. [Link](#).
47. Haghighi A., **Keramat, A.**, (2012) A Fuzzy approach for Considering Uncertainty in Transient Analysis of Pipe Networks, *Journal of Hydroinformatics (IF:3.058, JCR: Q2)*, (IWA Publishing), 14, 1024–1035. [Link](#).
48. **Keramat, A.\***, Ahmadi, A., (2012) Axial vibration of viscoelastic bars using the finite-element method, *Journal of Engineering Mathematics (IF:1.444, JCR: Q2)*, 77, 105-117. [Link](#).
49. **Keramat, A.**, Haghighi, A., (2011) Water hammer in polyethylene pipes, *Journal of Hydraulics, Iranian Hydraulic Association*, 6 (1), 69-84. [Link](#).

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## CONFERENCE PROCEEDINGS

1. **Keramat, A.**, Ghidaoui, M.S., Wang, X., Time domain inverse transient analysis for pipeline leak detection in a noisy environment. E-proceedings of the 37th IAHR World Congress August 13 – 18, 2017, Kuala Lumpur, Malaysia.
2. Hou, Q., Kruisbrink, A.C.H., Tijsseling, A.S., **Keramat, A.**, Simulating transient pipe flow with corrective smoothed particle method, 11th International Conference on, Pressure Surges Lisbon, October 24- 26, 2012.
3. **Keramat, A.**, Tijsseling, A.S., Waterhammer with column separation, fluid-structure interaction and unsteady friction in a viscoelastic pipe, 11th International Conference on, Pressure Surges Lisbon, October 24- 26, 2012.
4. Bergant, A., Hou, Q., **Keramat, A.**, Tijsseling, A.S., Experimental and Numerical Analysis of Water Hammer in a Large-Scale PVC Pipeline Apparatus, 4-th International Meeting on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, Belgrade, Serbia, October, 26-28, 2011.
5. **Keramat, A.**, Ahmadi, A., Axial vibration of viscoelastic bars using the finite-element method, 7th GRACM International Congress on Computational Mechanics, Athens, 30 June – 2 July 2011.
6. **Keramat, A.**, Tijsseling, A.S., Ahmadi, A., 2009, Investigation of transient cavitating flow in viscoelastic pipes, Proceedings of the 25th IAHR Symposium on Hydraulic Machinery and Systems, Timisoara, Romania, September 2010.
7. **Keramat, A.**, Ahmadi, A., Majd, A., Transient cavitating pipe flow due to a pump failure, Proceedings of the 3rd IAHR International Meeting of the Work Group on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, Brno, Czech Republic, October 2009.



8. Ahmadi, A., **Keramat, A.**, Dynamic Analysis of Fluid Filled Piping Systems, Int. Conf. on Modelling and Simulation, Coimbatore - India, 2007.
  9. Ahmadi, A., **Keramat, A.**, Investigation of the Junction Coupling due to various types of Discrete Points in a Piping System, The 12th International Conference of International Association for Computer Methods and Advances in Geomechanics (IACMAG) 1-6 October, 2008, Goa, India.
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## INQUIRY

My theses advisers and colleagues can provide further information about me:

1. Arris S. Tijsseling, *Associate Professor at Eindhoven University of Technology, The Netherlands*. Phone: +31 40 247 2755. E-mail: [a.s.tijsseling@tue.nl](mailto:a.s.tijsseling@tue.nl)
2. Huan-Feng Duan, *Associate Professor at the Hong Kong Polytechnic University (HKPolyU), Hong Kong, China*. Phone: +852 3400 8449. Email: [hf.duan@polyu.edu.hk](mailto:hf.duan@polyu.edu.hk)
3. Bruno Brunone, *Professor at University of Perugia, Italy*. Phone: +39 075 5853617 (office), Fax: +39 075 5853830. E-Mail: [bruno.brunone@unipg.it](mailto:bruno.brunone@unipg.it)
4. Bryan Karney, *Professor at University of Toronto, Canada*. Phone: +1 416-978-7776 (office), Fax: +1 416-978-6813. E-mail: [karney@ecf.utoronto.ca](mailto:karney@ecf.utoronto.ca)
5. Anton Bergant, *Head of Research and Development Department at Litostroj Power, Ljubljana, Slovenia*. E-mail: [anton.bergant@litostrojpower.eu](mailto:anton.bergant@litostrojpower.eu)
6. Samer Adeeb, *Professor and Associate Dean (Faculty of Graduate Studies, Research) at the University of Alberta, Canada*, Phone: +1 780 492 2190. Email: [adeeb@ualberta.ca](mailto:adeeb@ualberta.ca)
7. Ahmad Ahmadi, *Associate Professor at Shahrood University of Technology, Iran*. Phone: +98 912 273 0134. E-mail: [ahmadia97@yahoo.co.uk](mailto:ahmadia97@yahoo.co.uk) ; [a.ahmadi@shahroodut.ac.ir](mailto:a.ahmadi@shahroodut.ac.ir)
8. Mohamed S. Ghidaoui, *Chair Professor at Hong Kong University of Science and Technology, Hong Kong*, Phone: +852 2358 7174. China. E-mail: [ghidaoui@ust.hk](mailto:ghidaoui@ust.hk)
9. Yuanting Zhang, *Chair Professor at City University of Hong Kong, Chairman & Director of Hong Kong Centre for Cerebro-Cardiovascular Health Engineering (COCHE)*, E-mail: [yt.zhang@cityu.edu.hk](mailto:yt.zhang@cityu.edu.hk)
10. Jordi Alastruey, *Senior Lecturer at the King's College London, United Kingdom*, Phone: +44 (0)20 7188 7188. China. E-mail: [jordi.alastruey-arimon@kcl.ac.uk](mailto:jordi.alastruey-arimon@kcl.ac.uk)