RESUME

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Educations

B.D.	February 1978	Mechanical Engineering, Seoul National University, Seoul, Korea.
M.D.	February 1980	Mechanical Engineering, Korea Advanced Institute of Science, Daejeon, Korea.
Ph.D.	February 1984	Mechanical Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea.
Dissertation (Ph.D.)		Four-Equation Turbulence Models for Turbulent Boundary Layer with Buoyancy.

Experiences

04/1984 - 08/1988	Assistant Professor	Department of Mechanical Engineering, KAIST, Taejon, Korea
02/1986 - 02/1988	Visiting Professor	Department of Theoretical and Applied Mechanics, University of Illinois at Urbana-Champaign.
12/1989 - 02/1990	Visiting Professor	Department of Mechanical Engineering, University of Hokkaido
06/1990 - 08/1990	Visiting Professor	Institute of Hydromechanics, University of Karlsruhe
08/1988 - 02/1994	Associate Professor	Department of Mechanical Engineering, KAIST, Taejon, Korea
08/1996 - 08/1997	Visiting Professor	Mechanical and Aerospace Engineering Department, UCLA
06/2001 - 03/2003	Dean of Research Affairs	Korea Advanced Institute of science and Technology.
03/1994 - Present	Professor	Department of Mechanical Engineering, KAIST, Taejon, Korea.

Journal Papers

358 International journal papers

91 Domestic journal papers

365 International conference papers

Details can be found in http://flow.kaist.ac.kr

Recent publications

- R.Jalalabadi and H.J.Sung, "Influence of the Backflow on the Skin Friction in a Turbulent Pipe Flow", Physics of Fluids (Editor's Picks), in press, 2018
- M.Yoon, J.Hwang and H.J.Sung, "Contribution of Large-Scale Motions to the Skin Friction in a Moderate Adverse Pressure Gradient Turbulent Boundary Layer", Journal of Fluid Mechanics, in press, 2018
- H.Ahmed, G.Destgeer, J.Park, J.H.Jung and H.J.Sung, "Vertical Hydrodynamic Focusing and Continuous Acoustofluidic Separation of Particles via Upward Migration", Advanced Science, Vol. 5, Issue 2, 1700285, 2018
- J.Ryu, S.G.Park and H.J.Sung, "Flapping Dynamics of Inverted Flags in a Side-by-Side Arrangement", International Journal of Heat and Fluid Flow, Vol. 70, pp. 131-140, 2018
- G.Destgeer, A. Alam, H. Ahmed, J.Park, J.H.Jung, K.Park and H.J.Sung, "Characterization of Microchannel Anechoic Corners Formed by Surface Acoustic Waves", Applied Physics Letters, Vol. 112, Issue 8, 083501, 2018
- S.G.Park and H.J.Sung, "Hydrodynamics of Self-Propelled Flexible Fins in Tandem, Diagonal, Triangular and Diamond Configurations", Journal of Fluid Mechanics, Vol. 840, pp. 154-189, 2018
- J.Park, J.H.Jung, K.Park, G.Destgeer, H.Ahmed, R.Ahmad and H.J.Sung, "On-demand acoustic droplet splitting and steering in a disposable microfluidic chip", Lab on a Chip (Graphic selected for the Front Cover), Vol. 18, Issue 3, pp. 422-432, 2018
- S.Im, S.G.Park, Y.Cho and H.J.Sung, "Schooling Behavior of Rigid and Flexible Heaving Airfoils", International Journal of Heat and Fluid Flow, Vol. 69, pp. 224-233, 2018
- J.H.Jung, G.Destgeer, J.Park, H.Ahmed, K.Park and H.J.Sung, "Microfluidic Flow Switching Via Localized Acoustic Streaming Controlled by Surface Acoustic Waves", RSC Advances, Vol. 8, pp. 3206-3212, 2018
- S.G.Park and H.J.Sung, "Hydrodynamics of a Self-Propelled Flexible Fin in Perturbed Flows", Mechanical Engineering Reviews JSME, Vol.5, Issue 1, 17-00286, 2018
- J.B.Lee, S.G.Park and H.J.Sung, "Heat Transfer Enhancement by Asymmetrically Clamped Flexible Flags in a Channel Flow", International Journal of Heat and Mass Transfer, Vol. 116, pp. 1003–1015, 2018