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Talaat Abdelhamid, Ph. D.

PERSONAL DATA

Full Name: Talaat Abdelhamid Talaat Abdelhamid

Nationality: Egyptian

Sex: Male

Marital status: Married with two sons and one girl (*Moaz, Yaseen, Khadija*)

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EDUCATION

- **Aug. 2014 - Dec. 2017: Ph.D**, in computational mathematics, Central China Normal University, Wuhan 430079, Hubei, China.
- **Aug. 2016 – Aug. 2017: Visiting PhD student**, Shenzhen Institutes of Advanced Technology, Chinese Academy of Science, Shenzhen 518055, China.
- **Sep. 2011 – June 2013: M.Sc** in Applied Mathematics, Faculty of Science, Minia University, Al- Minia, Egypt.
- **2006 – 2009: BSc, Minia University**, Minya, Egypt. (**Grade: Excellent with Honor**).

PROFESSIONAL EXPERIENCE

- Postdoctoral fellow at Harbin institute of Technology, Shenzhen, China, 2018 - 2021.
- CAS President's International Fellowship Initiative Postdoctoral fellow at SIAT, Shenzhen, China, 2020 - 2022.
- Assistant Professor, Physics and Mathematical Engineering Department, Faculty of Electronic Engineering, Menoufia University, Egypt, February 2018 - Now.
- Assistant Lecturer, Physics and Mathematical Engineering Department, Faculty of Electronic Engineering, Menoufia University, Egypt 2014 - 2017.
http://mu.menofia.edu.eg/Talat_Talat/StaffDetails/1/en
- Assistant lecturer at Department of Mathematics, Faculty of Science, Minia University, Al-Minia, Egypt 2013 - 2014.
- Demonstrator at Department of Mathematics, Faculty of Science, Minia University, Al-Minia, Egypt 2010 - 2013.
 - Teaching in branches of applied mathematics for undergraduate students (Introduction to numerical methods (Computational Mathematics) – Linear/nonlinear algebra - Ordinary/Partial differential equations – Fluid Dynamics - Complex variables, Mathematical engineering, other courses for the undergraduate and postgraduate levels)

Conferences & Workshops

- International Conference on Numerical Partial Differential Equations and Their Applications, **May 25th -29th 2015**, Wuhan University, Wuhan, China.

- The 4th CAM-ICCM Workshop: Multiscale and Large-scale Scientific Computing, **June 18th -20th**, 2016, Hong Kong.
- Workshop on Optimization in Scientific Computing, CUHK, **June 21st -23rd**, 2017, Hong Kong.

AWARDS

- **Feb. 2020** Leading a colaporation project supported by the Science & Technology Development Fund (STDF) Egypt and the ministry of science and technology of the people Republic of Egypt, under the title “ High Performance Computing Algorithms and Software Development for Hemodynamics Analysis of Human Blood Flow”
- **Dec. 2018** Outstanding Academic Achievement Award Menoufya University, Egypt.
- **Dec. 2017** Winner of zhou hongyu scholarship award 2017, CCNU, China.
- **Jun. 2016** Outstanding Academic Achievement Award 2016, CCNU, China.
- **Jun. 2015** Outstanding Academic Achievement Award 2016, CCNU, China.
- **Aug. 2014 – Aug. 2017** PhD scholarship (full time) from Chinese Scholarchip.
- **Jun. 2009** Outstanding Academic Achievement Award Minia University, Egypt.

PUBLICATIONS

- 1- **Talaat Abdelhamid**, Md. Mahbub Alam, and Md. Islam, Heat transfer and flow around cylinder: effect of corner radius and Reynolds number, *International Journal of Heat and Mass Transfer*, Accepted Feb. 2021. (IF= 4.947, Q1)
- 2- N. A. Saeed, Emad Mahrous Awwad, **Talaat Abdelhamid**, Mohammed A. El-Meligy and Mohamed Sharaf, Adaptive versus Conventional Positive Position Feedback Controller to Suppress a Nonlinear System Vibrations, *Symmetry* 2021, 13(2), 255. (IF= 2.645, Q1)
- 3- Md. Mahbub Alam, **Talaat Abdelhamid**, Ahmad Sohankar, Effect of cylinder corner radius and attack angle on heat transfer and flow topology, *International Journal of Mechanical Sciences*, 175 (2020) 105566. (IF= 4.631, Q1)
- 4- **Talaat Abdelhamid**, Simultaneous identification of the spatio-temporal dependent heat transfer coefficient and spatially dependent heat flux using a MCGM in a parabolic system, *Journal of Computational and Applied Mathematics*, 32, 164 -176, 2017. (IF= 1.88, Q1)
- 5- Daijun Jiang and **Talaat Abdelhamid**, Simultaneous identification of Robin coefficient and heat flux in an elliptic system, *International Journal of Computer Mathematics*, 94 (1), 1-12, 2017. (IF= 1.19, Q2) <http://dx.doi.org/10.1080/00207160.2015.1099634>
- 6- **Talaat Abdelhamid**, Xiaomao Deng, and Rongliang Chen, A new method for simultaneously reconstructing the space-time dependent Robin coefficient and heat flux in a parabolic system, *International Journal of Numerical Analysis and Modeling*, 14 (6), pp 893–915, 2017. (IF= 0.85, Q2) <https://doi.org/10.1016/j.cam.2017.06.031>
- 7- Ammar H. Elsheikh, Swellam W. Sharshir, A. S. Ismail, Ravishankar Sathyamurthy, **Talaat Abdelhamid**, Elbager M. A. Edreis, A. E. Kabeel & Zhang Haiou, An artificial neural network based approach for prediction the thermal conductivity of nanofluids, *SN Applied Sciences*, 2, 235 (2020).
- 8- Ammar H. Elsheikh, Swellam W. Sharshir, Mohamed Kamal Ahmed Ali, J. Shaib, Elbager M. A. Edreis, **Talaat Abdelhamid**, Chun Du, Zhang Haiou. Thin film

- technology for solar steam generation: A new dawn, *Solar Energy*, 177 (2019) 561–575. (IF= 4.67, Q1)
- 9- **Talaat Abdelhamid**, A.H. Elsheikh, Ahmed Elazab, S.W. Sharshir, and Ehab S. Selima, Daijun Jiang, Simultaneous reconstruction of the time-dependent Robin coefficient and heat flux in heat conduction problems, *Inverse Problems in Science and Engineering*, 26(9), 1231-1248, 2017. (IF= 1.46, Q2)
 - 10- Swellam W. Sharshir, Guilong Peng, A.H. Elsheikh, Elbager M.A. Edreis, Mohamed A. Eltawil, **Talaat Abdelhamid**, A.E. Kabeel, Jianfeng Zang, Nuo Yang, Energy and exergy analysis of solar stills with micro/nano particles: A comparative study, *Energy Conversion and Management* 177 (2018) 363–375. (IF= 7.87, Q1)
 - 11- **Talaat Abdelhamid** and Olatunji Mumini Omisore, An efficient method for simultaneously reconstructing Robin coefficient and heat flux in an elliptic equation using a MCGM, *WSEAS Transactions on Heat And Mass Transfer*, Vol. 12, 122-135, 2017.
 - 12- Ehab S. Selima, Y. Mao, X. Yao, Adel M. Morad, **Talaat Abdelhamid**, B. Selim, Applicable symbolic computations on dynamics of small-amplitude long waves and Davey–Stewartson equations in finite water depth, *Applied Mathematical Modelling* 57, 2018. (IF= 2.84, Q1)
 - 13- **Talaat Abdelhamid**, Meknani Bassem, Asmaa A. Amer, Ahmed Nagah, Optimal Control for Systems Described by Semi-linear Parabolic Equations, *WSEAS Transactions on Mathematics*, Vol.17, 58-64, 2018.
 - 14- Olatunji Mumini Omisore , Shipeng Han, Lingxue Ren, Ahamed Elazab, **Talaat Abdelhamid**, Hui Li, Nureni Ayofe Azeez, and Lei Wang, “Deeply-Learnt Damped Least-Squares Method for Inverse Kinematics of Snake-Like Robots”, *Neural Networks*, Elsevier, 107 (2018): 34-47, August 2018, (IF = 7.179, JCR Q1).
 - 15- Ahmed Elazab, Hongmin Ba, Yousry M. Abdulazeem, **Talaat Abdelhamid**, Sijie Zhou, Kelvin K. L. Wong, and Qingmao Hu, Post-Surgery Glioma Growth Modeling from Magnetic Resonance Images for Patients with Treatment, *Scientific Reports*, 7, 1222, 2017. (IF= 5.23, Q1)
 - 16- **Talaat Abdelhamid** and Mahmoud H. Farag, Numerical study for constrained optimal control problems of parabolic systems, *Numerical Methods and Applications*, Lab Lambert Academic publishing, Feb 2015. (Book).
 - 17- **Talaat Abdelhamid**, A.H. Elsheikh, and Daijun Jiang, On the simultaneous reconstruction of heat transfer coefficient and heat flux in the heat conduction problem, *under review in Inverse Problems*, 2017.
 - 18- **Talaat Abdelhamid**, Rongliang Chen, Xiao-Chuan Cai, Tumor identification in the soft tissue of the elasticity imaging inverse problems, *under review in SIAM review*, 2018.
 - 19- M. H. Farag and **Talaat Abdelhamid**, A combined exterior penalty function conjugate gradient algorithm for a class of constrained optimal control quasilinear parabolic systems, *Information Theories and Applications*, 20(2), 122-130, 2013.
 - 20- M. H. Farag, **Talaat Abdelhamid**, and E. M. Kamal, Existence and uniqueness solution of a class of quasilinear parabolic boundary control problems, *CUBO A Mathematical Journal*, 15(2), 111–119, June 2013.
 - 21- M. H. Farag, **Talaat Abdelhamid**, E. M. Kamal, Well-posedness of a quasilinear parabolic optimal control problem, *International Journal of Pure and Applied Mathematics* 76 (2), 157-166, 2012.

A REFEREE IN INTERNATIONAL JOURNALS

- Inverse problems
<http://iopscience.iop.org/journal/0266-5611>
- Inverse Problems in Science and Engineering
<http://www.tandfonline.com/toc/gipe20/current>
- International Journal of Computer Mathematics
<http://www.tandfonline.com/toc/gcom20/current>

REFERENCES:

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4. **Prof. Rongliang Chen**, Shenzhen Institutes of Advanced Technology, Chinese Academy of Science, Shenzhen, China.
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