**Mohammed Sabah Hussein**

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**EDUCATION**

**2012-2016 Ph.D Applied mathematics/ University of Leeds**

**2005-2007 MS.c in Applied mathematics/ University of Baghdad**

**2000-2004 BS.c Mathematics / University of Baghdad**

**EMPLOYMENT**

**2007-now Lecurrer assistant at department of mathematics, college of science, university of Baghdad.**

**PROFESSIONAL MEMBERSHIPS**

Member in IQSS (Iraqi Student Society).

Member in SIAM

**SKILLS**

**Programming with Matlab, Mathematica, Maple, Microsoft Word and Latex.**

**Training courses**

* LATEX Beginners, LATEX Improvers, Maths IT computer indication training, Supporting Postgraduates who teach Mathematics and Statistics, and Matlab and Simulink Advanced, FORTRAN for beginners, Advanced and introduction Unix/Linux for Scientific Researchers.
* Starting Your Research Degree, Project Managing Your Research Degree, Time Management during your Research Degree, Evaluating and Developing Your Own Teach, Effective Poster Presentations (STEM), Student Diversity and Engagement, A Balancing Act, Preparing for Your Transfer, Working Effectively with your Supervisor, Word for Thesis Working with Objects, Giving effective seminar/conference Presentation (STEM), An introduction to Parallel Program, Working with Literature, Search and Save, Ethics and Ethical Review, Powerpoint Techniques, Writing for Research Students.

**RESEARCH**

* Inverse problem for parabolic equation with Prof. D. Lesnic.

**PUBLICATIONS**

1. M.S. Hussein and D. Lesnic. Simultaneous determination of time-dependent coefficients and heat source. *International Journal for Computational Methods in Engineering Science and Mechanics*, submitted, 2015.
2. M.S. Hussein and D. Lesnic. Determination of a time-dependent thermal diffusivity and free boundary in heat conduction. *International Communications in Heat and Mass Transfer*, 53:154–163, 2014.
3. M.S. Hussein and D. Lesnic. Identification of the time-dependent conductivity of an inhomogeneous diffusive material. *Applied Mathematics and Computation*, 269:35–58, 2015.
4. M.S. Hussein and D. Lesnic. Simultaneous determination of time and space dependent coefficients in a parabolic equation. *Comunications in Nonlinear Science and Numerical Simulation*, 33:194–217, 2016.
5. M.S. Hussein, D. Lesnic, and M.I. Ismailov. An inverse problem of finding the time-dependent diffusion coefficient from an integral condition. Accepted by *Mathematical Methods in the Applied Sciences*, 2015.
6. M.S. Hussein, D. Lesnic, and M.I. Ivanchov. Free boundary determination in nonlinear diffusion. *East Asian Journal on Applied Mathematics*, 3(04):295–310, 2013.
7. M.S. Hussein, D. Lesnic, and M.I. Ivanchov. Simultaneous determination of time-dependent coefficients in the heat equation. *Computers and Mathematics with Applications*, 67(5):1065–1091, 2014.
8. M.S. Hussein, D. Lesnic, and M.I. Ivanchov. Identification of a heterogeneous orthotropic conductivity in a rectangular domain. Accepted by *International Journal of Novel Ideas: Mathematics*, 2015.
9. M.S. Hussein, D. Lesnic, M.I. Ivanchov, and H.A. Snitko. Multiple time-dependent coefficient identification thermal problems with a free boundary. *Applied Numerical Mathematics*, 99:24–50, 2016.

**CONFERENCES and COURSES ATTENDED**

* Attended the 31st Mathematics Teachers and Advisors Conference, 26 June 2012, University of Leeds, UK.
* Presented and given a talk on ”Determination of thermal properties” at the British Applied Mathematics Colloquium (BAMC2013), 9-12 April 2013, University of Leeds, UK.
* Attended the 32nd Mathematics Teachers and Advisors Conference, 25 June 2013, University of Leeds, UK.
* Attended the London Mathematical Society (LMS) meeting on inverse problems held at the Isaac Newton Institute of Mathematical Sciences, 7 February 2014, Cambridge, UK.
* Attend the 33rd Mathematics Teachers and Advisors Conference, 27 June 2014, University of Leeds, UK.
* Participated and give a talk on ”Determination of time-dependent coefficients in the heat equation” at the Sixth Conference on Finite Difference Methods: Theory and Applications, June 18-23, 2014, Lozenetz, Bulgaria.
* Attended the London Mathematical Society (LMS) meeting on inverse problems held at Manchester University, 4 June 2014, Manchester, UK.
* Attended the London Mathematical Society (LMS) meeting on inverse problems held at Leeds University, 22 September 2014, Leeds, UK.
* Attended the 34th Mathematics Teachers and Advisors Conference, 23rd June 2015, University of Leeds, UK.

**PROFESSIONAL MEMBERSHIPS**

List any membership you hold of any professional body or learned society.