

**Chadia Affane Aji, Professor  
Mathematics  
College of Arts and Sciences  
Publications and Presentations**

**BOOKS**

**REFEREED JOURNAL PUBLICATIONS**

- Chadia Affane Aji, M. Javed Khan, Virtual to reality: Teaching Mathematics and Aerospace Concepts to Undergraduates Using Unmanned Aerial Systems and Flight Simulation Software, under print in **Journal** of College of Teaching and Learning, 2015
- James Holt, Saad Biaz, Levent Yilmaz, and C Affane Aji, “A Symbiotic Simulation Architecture for Evaluating UAVs Collision Avoidance Techniques,” *Journal of Simulation*, Palgrave MacMillian, Volume 8, Issue 1, 2014
- Chadia Affane Aji, Laurretta Garrett, & Saad Biaz, “The Integration of Scilab into College Calculus,” *Alabama Journal of Mathematics*, 37, 2013  
<http://ajmonline.org/2013/scilab.php>
- James Holt, Saad Biaz, and Chadia Affane Aji, “Comparison of UAS Collision Avoidance Algorithms in a Simulated Environment,” *Journal of Guidance, Control, and Dynamics*, Editor: the American Institute of Aeronautics and Astronautics (AIAA), Volume 36, Issue 3, 2013
- C. Affane-Aji, N. K. Govil, “On the Region Containing All the Zeros of a Polynomial,” *Nonlinear Analysis: Stability, Approximation and Inequalities*, Edited by P.G. Georgiev, P. Pardalos, and H.M.Srivastava, Springer Optimization and Its Applications 68 (2012) 39-55
- C. Affane-Aji, S. Biaz, N. K. Govil, “On Annuli Containing All the Zeros of a Polynomial,” *Mathematical and Computer Modeling* 52 (2010) 1532-1537
- C. Affane Aji, H. Elalaoui-Talibi, “A Partitioning Algorithm for Computing Limiting Distributions of Ill-Conditioned Markov Chains,” *Advances and Applications Statistical Sciences*, No. 2, (2010) 511-519

- C. Affane, Saad Biaz, S. Elnashai, F. Uhlig, “A Geometr

**PRESENTATIONS, POSTERS, AND HIGHLIGHTS**

- Video lecture production with any tablet. **Presentation** at the Online Faculty Development Workshop, March 18, 2015
- Using iPad and Wacom tablet to create your own video. **Presentation** at the Office of Distance Education and Online Learning (ODEOL) workshop, March 10, 2015
- Invited **lecture**, The Nation, Culture, and Architecture of Morocco. Presentation to students and faculty in Robert R. Taylor School of Architecture and Construction at Tuskegee University, February 25, 2015
- Virtual To Reality: Teaching Mathematics And Aerospace Concepts To Undergraduates Using Unmanned Aerial Systems And Flight Simulation Software, accepted for oral **presentation** in the *2015 International Education Conference in Maui*, January 5-7, 2015
- An Investigation Of Spatial Visualization Skills Of Minority Students, accepted for oral **presentation** in the *2015 International Education Conference in Maui*, January 5-7, 2015
- Using i –

University, T-CAEIL Workshop, January 2014

- Innovative Flight Simulation Experiences for Students & Teachers: Integrating a Flight Simulation Environment in the Classroom to Teach Math and Science Concepts. **Poster** presented at the NSF ITEST STELAR, Washington DC, August 2014
- Numerical Methods for Solving Nonlinear Equation. **Presentation** for mathematics senior students seminar, November 4, 2013
- Wacom Tablet and Video Preparation. **Presentation** for the Online Teaching Center at Tuskegee University, October 23, 2013
- Using a UAV to Teach Undergraduates Math and Aircraft Performance. **Presentation** at the American Society of Engineering Education (ASEE), Annual Conference and Exposition, 23-26 June 2013, Atlanta, GA
- The Integration of Scilab into College Calculus. **Presentation** at the Alabama Association of College Teachers of Mathematics (AACTM) Annual Meeting, Birmingham Southern College, Birmingham AL, Feb 2013
- Integrating a flight simulation environment in the classroom to teach Math and Science concepts. **Poster** presented at the NSF ITEST Summit, Washington DC, February 29-March 1, 2012
- Integrating a Flight Simulation Environment in the Classroom to Teach Math & Science, the International Society for Technology and Education (ISTE) **Poster**, 2012
- The Development and Implementation of a Flight Simulation Based Environment for Teaching Math and Science, Society for Information Technology & Teacher Education (SITE) **Poster**, March 5-6, 2012
- Integrating a flight simulation environment in the classroom to teach Math and Science concepts. **Poster** presented at the NSF ITEST Summit, Washington DC, March 3-4, 2011
- Integrating a flight simulation environment in the classroom to teach Math and Science concepts. **Poster** presented at the NSF ITEST Summit, Washington DC, March 3-4, 2010
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