

# Claude M. Tameze

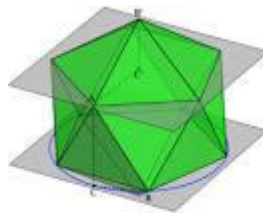
Chair and Associate Professor  
Department of Mathematics & Computer  
Science

Ph.D. Applied Mathematics & Mathematical  
Physics



Dr. Tameze's research focuses primarily on image processing/shape recognition and Laser Induced-Breakdown Spectroscopy (LIBS) imaging using nonlinear diffusion methods. Other areas of his research include number theory, and evaluation of directed beams of modulated microwaves to disrupt electronics that are used to activate improvised explosive devices (IEDs) with application in National Defense. He is also a researcher of the STEM innovative pedagogy using the *Piaget and Vygotsky's Learning Theories and Rigorous Mathematical Thinking (RMT)*. Dr. Tameze also promotes excellence in Science and Mathematics research in High Schools as a volunteer Judge/Co-Chair/Chair for the Delaware Science Fairs and participated in obtaining the NSF-LEAPS funding.

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## Recent Publications

Vesna Zeljkovic, Milena Bojic, Shengwei Zhao, **Claude Tameze**, Ventzeslav Valev, "Exudates and Optic Disc Detection in Retinal Images of Diabetic Patients.", *Concurrency and Computation: Practice and Experience*, 2014.

**Claude Tameze**, "Transforming STEM Education through the STEM Supplemental Instruction, 2013|HUIC|Education & Technology| Math & Engineering Technology."

Vesna Zeljkovic, Milena Bojic, **Claude Tameze**, Ventzeslav Valev, "Exudates Detection and Classification Algorithm of Diabetic Patients.' Retina Images.". Volume 22, issue 02, February 2013,

Julián Ramos Cózar, Vesna Zeljkovic, José María González-Linares, Nicolas Guil, **Claude Tameze**, Ventzeslav Valev: A framework for TV logos learning using linear inverse diffusion filters for noise removal. *HPCS 2013*: 621-625

Vesna Zeljkovic, Milena Bojic, **Claude Tameze**, Ventzeslav Valev: Classification algorithm of retina images of diabetic patients based on exudates detection. *HPCS 2012*: 167-173

Vesna Zeljkovic, Ventzeslav Valev, **Claude Tameze**, Milena Bojic: Pre-Ictal phase detection algorithm based on one dimensional EEG signals and two dimensional formed images analysis. *HPCS 2013*: 607-614

Claude Tameze, "**Diffusion Filters and Triangle Method Used for Removal of Noise from Images**" *American Mathematical Society*, Volume 10, Issues 5-6,

Vesna Zeljkovic, Qiang Li, Robert Vincelette, Claude Tameze, Fengshan Liu, "Automatic Algorithm for ISAR Images Recognition and Classification.", *IET Radar, Sonar and Navigation*, 2009.