Algebra and Applications

Dr. Abdul Salam Jarrah

Professor | Head of Department

His research spans computational commutative algebra, cubical homology theory of graphs, algebraic methods in invariant theory, computational immunology, discrete dynamical systems and computational systems biology. He previously served as a Senior Research Associate at Virginia Tech, was a member of the Mathematical Sciences Research Institute, and has taught mathematics at Virginia Tech, East Tennessee State University and New Mexico State University.

Dr. Ayman Badawi

Professor

His area of research is in commutative algebra, and his teaching interests are linear algebra, abstract algebra, number theory, discrete math, calculus, differential equations, math for architects, geometry, graph theory and business math.

Dr. Taher Abualrub

Professor

His research interests include error correcting codes, DNA computing, wavelet theory and control theory. He is on the editorial board of *Mathematical Sciences & Applications E-Notes Journal* and *Journal of Algebra Combinatorics Discrete Structures and Applications*. He has published over 45 refereed journal and conference proceedings papers.

Dr. Sadok Kallel

Professor

His research interests are in algebraic topology and homotopy theory, two branches of modern geometry, with applications to non-linear analysis and differential geometry. He is a founding member and the current Director of the Mediterranean Institute for the Mathematical Sciences.

Dr. Selcuk Aygin

Assistant Professor

His research interests are in modular forms, q-series, partitions and representations by quadratic forms.