JOURNAL OF MATHEMATICAL SCIENCES AND MODELLING



Editor in Chief

Mahmut Akyiğit
Department of Mathematics,
Faculty of Science, Sakarya University,
Sakarya-TÜRKİYE
makyigit@sakarya.edu.tr

Assistant Editor

Emrah Evren Kara Department of Mathematics, Faculty of Science and Arts, Düzce University, Düzce-TÜRKİYE eevrenkara@duzce.edu.tr

Editorial Board of Journal of Mathematical Sciences and Modelling

Ioannis Dassios University College Dublin, IRELAND $\begin{array}{c} {\rm Galip\ Oturan} \varsigma \\ {\rm Karamanoglu\ Mehmet\ Bey\ University}, \\ {\rm T\ddot{U}R\dot{K}\dot{I}YE} \end{array}$

Mujahid Abbas University of Pretoria, SOUTH AFRICA

Olena Sierikova National University of Civil Protection of Ukraine, UKRAINE İrem Bağlan Kocaeli University, TÜRKİYE

Statistics Editor

Melek Eriş Büyükkaya Karadeniz Technical University, TÜRKİYE

Language Editor Tolga Aktürk Yıldız Technical University, TÜRKİYE Technical Editor

 $\begin{array}{c} {\rm Ayla~Erdur~Kara} \\ {\rm Tekirdag~Namık~Kemal~University,} \\ {\rm T\ddot{U}RK\dot{I}YE} \end{array}$

Contents

1	Reduced Order Modelling of Shigesada–Kawasaki–Teramoto Cross-Diffusion Systems	
	Gülden MÜLAYİM	42 - 48

- 2 Application of Fractional SPR Psychological Disease Model in Turkey and Stability Analysis Zafer $\ddot{O}ZT\ddot{U}RK$, Halil $B\dot{I}LG\dot{I}L$, Sezer SORGUN 49–55
- 3 Dynamical Analysis of a Local Lengley–Epstein System Coupled with Fractional Delayed Differential Equations $Ercan\ BALCI$ 56–64
- 4 Qualitative Study of A Discrete–Time Harvested Fishery Model in the Presence of Toxicity $Debasis\ MUKHERJEE$ 65-75
- 5 Quantitative Aeroelastic Stability Prediction of Wings Exhibiting Nonlinear Restoring Forces $Aykut\ TAMER$ 76–86