

## Prof. ASLI PEKCAN YILDIZ

### Personal Information

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### Education Information

Post Doctorate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Matematik, Turkey 2010 - 2011

Post Doctorate, University of South Florida, College Of Arts And Science, Department Of Mathematics And Statistics, United States Of America 2010 - 2010

Doctorate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Matematik, Turkey 2005 - 2009

Postgraduate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Matematik, Turkey 2003 - 2005

Undergraduate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Matematik, Turkey 1999 - 2003

### Foreign Languages

English, C1 Advanced

### Research Areas

Differential Equations, Partial Differential Equations

### Academic Titles / Tasks

Professor, Hacettepe University, Fen Fakültesi, Matematik Bölümü, 2022 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Multi-component AKNS systems**  
Gürses M., YILDIZ A.  
Wave Motion, vol.117, 2023 (SCI-Expanded)
- II. **Soliton solutions of the shifted nonlocal NLS and MKdV equations**  
Gurses M., YILDIZ A.  
PHYSICS LETTERS A, vol.422, 2022 (SCI-Expanded)
- III. **(2+1)-dimensional AKNS(-N) systems II**  
GÜRSES M., Pekcan A.  
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.97, 2021 (SCI-Expanded)

- IV. **Local and nonlocal (2+1)-dimensional Maccari systems and their soliton solutions**  
Pekcan A.  
PHYSICA SCRIPTA, vol.96, no.3, 2021 (SCI-Expanded)
- V. **Nonlocal KdV equations**  
GÜRSES M., Pekcan A.  
PHYSICS LETTERS A, vol.384, no.35, 2020 (SCI-Expanded)
- VI. **Nonlocal hydrodynamic type of equations**  
GÜRSES M., Pekcan A., ZHELTUKHIN K.  
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.85, 2020 (SCI-Expanded)
- VII. **Discrete symmetries and nonlocal reductions**  
GÜRSES M., Pekcan A., ZHELTUKHIN K.  
PHYSICS LETTERS A, vol.384, no.3, 2020 (SCI-Expanded)
- VIII. **Superposition of the coupled NLS and MKdV systems**  
GÜRSES M., Pekcan A.  
APPLIED MATHEMATICS LETTERS, vol.98, pp.157-163, 2019 (SCI-Expanded)
- IX. **(2+1)-dimensional local and nonlocal reductions of the negative AKNS system: Soliton solutions**  
GÜRSES M., Pekcan A.  
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.71, pp.161-173, 2019 (SCI-Expanded)
- X. **Nonlocal coupled HI-MKdv systems**  
Pekcan A.  
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.72, pp.493-515, 2019 (SCI-Expanded)
- XI. **Nonlocal modified KdV equations and their soliton solutions by Hirota Method**  
GÜRSES M., Pekcan A.  
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.67, pp.427-448, 2019 (SCI-Expanded)
- XII. **Nonlocal nonlinear Schrodinger equations and their soliton solutions**  
GÜRSES M., Pekcan A.  
JOURNAL OF MATHEMATICAL PHYSICS, vol.59, no.5, 2018 (SCI-Expanded)
- XIII. **Traveling wave solutions of degenerate coupled Korteweg-de Vries equation**  
Gurses M., Pekcan A.  
JOURNAL OF MATHEMATICAL PHYSICS, vol.55, no.9, 2014 (SCI-Expanded)
- XIV. **The Klein-Gordon Equation and Differential Substitutions of the Form  $v = \phi(u, u(x), u(y))$**   
KUZNETSOVA M. N., Pekcan A., ZHIBER A. V.  
SYMMETRY INTEGRABILITY AND GEOMETRY-METHODS AND APPLICATIONS, vol.8, 2012 (SCI-Expanded)
- XV. **2+1 KdV(N) equations**  
Gurses M., Pekcan A.  
JOURNAL OF MATHEMATICAL PHYSICS, vol.52, no.8, 2011 (SCI-Expanded)
- XVI. **Uniqueness of the Kadomtsev-Petviashvili and Boussinesq Equations**  
MA W., Pekcan A.  
ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.66, pp.377-382, 2011 (SCI-Expanded)
- XVII. **Complete list of Darboux integrable chains of the form  $t(1x)=t(x)+d(t,t(1))$**   
HABIBULLIN I., Zheltukhina N., Pekcan A.  
JOURNAL OF MATHEMATICAL PHYSICS, vol.50, no.10, 2009 (SCI-Expanded)
- XVIII. **SOLUTIONS OF THE EXTENDED KADOMTSEV-PETVIASHVILI-BOUSSINESQ EQUATION BY THE HIROTA DIRECT METHOD**  
Pekcan A.  
JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS, vol.16, no.2, pp.127-139, 2009 (SCI-Expanded)
- XIX. **On the classification of Darboux integrable chains**

Habibullin I, Zheltukhina N, Pekcan A.

JOURNAL OF MATHEMATICAL PHYSICS, vol.49, no.10, 2008 (SCI-Expanded)

**XX. On some algebraic properties of semi-discrete hyperbolic type equations**

Habibullin I, Pekcan A, Zheltukhina N.

TURKISH JOURNAL OF MATHEMATICS, vol.32, no.3, pp.277-292, 2008 (SCI-Expanded)

**XXI. Characteristic Lie algebra and classification of semidiscrete models**

HABIBULLIN I. T., Pekcan A. G.

THEORETICAL AND MATHEMATICAL PHYSICS, vol.151, no.3, pp.781-790, 2007 (SCI-Expanded)

## Articles Published in Other Journals

**I. Shifted nonlocal Kundu type equations: Soliton solutions**

YILDIZ A.

Partial Differential Equations in Applied Mathematics, vol.5, 2022 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

**I. Nonlocal Reductions of Integrable Equations**

GÜRSES M., YILDIZ A.

3rd INTERNATIONAL CONFERENCE ON SYMMETRIES, DIFFERENTIAL EQUATIONS AND APPLICATIONS, 14 - 17 August 2017, vol.266, pp.27-52

**II. Traveling wave solutions of degenerate coupled multi KdV equations**

GÜRSES M., YILDIZ A.

III. Kadın Matematikçiler Derneği Çalıştayı, Turkey, 27 - 29 May 2016

**III. Degenerate Coupled Multi KdV Equation**

GÜRSES M., YILDIZ A.

International Workshop on Differential Equations and Applications VII, 14 - 16 July 2015

**IV. Traveling Wave Solutions of Degenerate Coupled KdV Equation**

GÜRSES M., YILDIZ A.

International Workshop on Differential Equations and Applications VI, 13 - 15 September 2013

**V. 2+1 KdV N Equations**

Gürses M., Yıldız A.

International Workshop on Differential Equations and Applications V, İzmir, Turkey, 12 - 15 September 2013

**VI. On Some Algebraic Properties of Semi Discrete Hyperbolic Type Equations**

YILDIZ A.

Differential Equations, University of South Florida, Florida/Tampa, 14 April 2010

## Metrics

Publication: 28

Citation (WoS): 213

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