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Education Information

Post Doctorate, The University Of Texas At Austin, Civil Engineering, United States Of America
1998 - 1999

Doctorate, İstanbul Teknik Üniversitesi, Gemi İnşaatı Ve Deniz Bilimleri Fakültesi, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği Bölümü, Turkey 1990 - 1996

Postgraduate, İstanbul Teknik Üniversitesi, Gemi İnşaatı Ve Deniz Bilimleri Fakültesi, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği Bölümü, Turkey 1988 - 1990

Undergraduate, İstanbul Teknik Üniversitesi, Gemi İnşaatı Ve Deniz Bilimleri Fakültesi, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği Bölümü, Turkey 1984 - 1988

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Serbest Su Yüzeyi Altında İlerleyen Üç Boyutlu Hidrofoillerin Hidrodinamik Analizi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Gemi Hidromekaniği Abd, 1996

Postgraduate, Gemi dalga direncinin kaynak-panel yöntemiyle sayısal hesabı, İstanbul Teknik Üniversitesi, Gemi İnşaatı Ve Deniz Bilimleri Fakültesi, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği Bölümü, 1990

Research Areas

Naval Architecture and Marine Engineering, Ship Hydromechanics, Ship Construction, Engineering and Technology

Academic Titles / Tasks

Professor, Istanbul Technical University, Gemi İnşaatı Ve Deniz Bilimleri, Gemi İnşaatı Ve Gemi Makinaları Mühendisliği, 2009 - Continues

Professor, Université De Liège, Engineering, Civil, 2011 - 2011

Associate Professor, Istanbul Technical University, Gemi İnşaatı Ve Deniz Bilimleri, Gemi İnşaatı Ve Gemi Makinaları Mühendisliği, 2000 - 2009

Associate Professor, The University Of Texas At Austin, Engineering, Civil, 2005 - 2005

Assistant Professor, Istanbul Technical University, Gemi İnşaatı Ve Deniz Bilimleri, Gemi İnşaatı Ve Gemi Makinaları Mühendisliği, 1998 - 2000

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Gemi İnşaatı Ve Deniz Bilimleri Fakültesi, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği Bölümü, 2014 - Continues

İstanbul Teknik Üniversitesi, Gemi İnşaatı Ve Deniz Bilimleri Fakültesi, 2016 - 2017

İstanbul Teknik Üniversitesi, Gemi İnşaatı Ve Deniz Bilimleri Fakültesi, 2012 - 2013

Courses

Gemi Hareketleri ve Manavrası, Undergraduate, 2017 - 2018

Fluid Mechanics, Undergraduate, 2016 - 2017

BOUNDARY ELEMENT METHODS IN SHIP HYDRODYNAMICS, Postgraduate, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2015 - 2016, 2016 - 2017, 2017 - 2018

SHIP MOTIONS AND MANEUVERING, Undergraduate, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017

Jury Memberships

Post Graduate, External Reviewer, University of Strathclyde, Glasgow, October, 2018

Doctorate, PhD Thesis Examiner, University of Tasmania, Australian Maritime College, May, 2018

Doctorate, Doktora Tez Jüri Üyeliđi, Yıldız Teknik Üniversitesi, May, 2018

Doctorate, Doktora Tez Jüri Üyeliđi, Yıldız Teknik Üniversitesi, April, 2018

Doctorate, Doktora Tez Savunma Jüri Üyesi, İstanbul Teknik Üniversitesi, June, 2017

Post Graduate, Y. Lisans Tez Savunma Jürisi, İstanbul Teknik Üniversitesi, June, 2017

Doctoral Examination, Doktora Yeterlik Jürisi Üyesi, İstanbul Teknik Üniversitesi, May, 2017

Post Graduate, Y. Lisans Tez Savunma Jürisi, İstanbul Teknik Üniversitesi, December, 2016

Doctoral Examination, Doktora Yeterlik Jürisi Üyesi, İstanbul Teknik Üniversitesi, June, 2016

Doctoral Examination, Doktora Yeterlik Jürisi Üyesi, Yıldız Teknik Üniversitesi, June, 2016

Post Graduate, Y. Lisans Tez Savunma Jürisi, Yıldız Teknik Üniversitesi, June, 2016

Doctorate, Doktora Tez Savunma Jüri Üyesi, İstanbul Teknik Üniversitesi, May, 2016

Post Graduate, Y. Lisans Tez Savunma Jürisi, Yıldız Teknik Üniversitesi, January, 2016

Doctoral Examination, Doktora Yeterlik Jürisi Üyesi, İstanbul teknik Üniversitesi, December, 2015

Post Graduate, Y. Lisans Tez Savunma Jürisi, İstanbul Teknik Üniversitesi, June, 2015

Associate Professor Exam, ÜAK Doçentlik Ünvanı Yedek Jüri Üyesi, İstanbul Teknik Üniversitesi, June, 2015

Appointment Academic Staff, Y. Doç. Dr. Kadrosuna Atama Jürisi, Yıldız Teknik Üniversitesi, March, 2015

Doctoral Examination, Doktora Yeterlik Jürisi Üyesi, İstanbul teknik Üniversitesi, December, 2014

Appointment Academic Staff, Profesör Kadrosuna Atama Jürisi, Yıldız Teknik Üniversitesi, August, 2014

Doctoral Examination, Doktora Yeterlik Jürisi Üyesi, İstanbul Teknik Üniversitesi, June, 2014

Appointment Academic Staff, Profesör Kadrosuna Atama Jürisi, Gedik Üniversitesi, September, 2013

Post Graduate, Y. Lisans Tez Savunma Jürisi, Yıldız Teknik Üniversitesi, June, 2013

Doctorate, Doktora Tez Savunma Jüri Üyesi, İstanbul Teknik Üniversitesi, June, 2013

Post Graduate, Y. Lisans Tez Savunma Jürisi, İstanbul Teknik Üniversitesi, June, 2013

Doctoral Examination, Doktora Yeterlik Jürisi Üyesi, Yıldız Teknik Üniversitesi, June, 2013

Doctoral Examination, Doktora Yeterlik Jürisi Üyesi, İstanbul Teknik Üniversitesi, June, 2013

Doctorate, Doktora Tez Savunma Jüri Üyesi, Kocaeli Üniversitesi, May, 2013

Doctorate, Doktora Tez Savunma Jüri Üyesi, İstanbul teknik Üniversitesi, January, 2013

Doctoral Examination, Doktora Yeterlik Jürisi Üyesi, Yıldız Teknik Üniversitesi, December, 2012
Appointment Academic Staff, Y. Doç. Dr. Kadrosuna Atama Jürisi, Yıldız Teknik Üniversitesi, June, 2012
Doctoral Examination, Doktora Yeterlik Jürisi Üyesi, Yıldız Teknik Üniversitesi, June, 2012
Associate Professor Exam, YÖK ÜAK Doçentlik , YÖK ÜAK, June, 2012
Post Graduate, Y. Lisans Tez Savunma Jürisi, Yıldız Teknik Üniversitesi, June, 2011
Post Graduate, Y. Lisans Tez Savunma Jürisi, İstanbul Teknik Üniversitesi, June, 2011
Appointment Academic Staff, Profesör Kadrosuna Atama Jürisi, Yıldız Teknik Üniversitesi, April, 2011
Doctoral Examination, Doktora Yeterlik Jürisi Üyesi, İstanbul Teknik Üniversitesi, June, 2010
Post Graduate, Y. Lisans Tez Savunma Jürisi, Yıldız Teknik Üniversitesi, June, 2010
Doctoral Examination, Doktora Yeterlik Jürisi Üyesi, Yıldız Teknik Üniversitesi, June, 2010
Post Graduate, Y. Lisans Tez Savunma Jürisi, İstanbul teknik Üniversitesi, June, 2010
Post Graduate, Y. Lisans Tez Savunma Jürisi, Yıldız Teknik Üniversitesi, January, 2010
Post Graduate, Y. Lisans Tez Savunma Jürisi, İstanbul Teknik Üniversitesi, June, 2009
Doctorate, Doktora Tez Savunma Jürisi Üyesi, Yıldız Teknik Üniversitesi, February, 2009
Doctoral Examination, Doktora Yeterlik Jürisi Üyesi, Yıldız Teknik Üniversitesi, June, 2005
Post Graduate, Y. Lisans Tez Savunma Jürisi, İstanbul teknik Üniversitesi, June, 2004
Appointment Academic Staff, Y. Doç. Dr. Kadrosuna Atama Jürisi, Yıldız Teknik Üniversitesi, February, 2004
Post Graduate, Y. Lisans Tez Savunma Jürisi, İstanbul Teknik Üniversitesi, June, 2002

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Prediction of Resistance and Self-Propulsion Characteristics of a Full-Scale Naval Ship by CFD-Based GEOSIM Method**
Delen C., CAN U., Bal Ş.
JOURNAL OF SHIP RESEARCH, vol.65, no.4, pp.346-361, 2021 (Journal Indexed in SCI)
- II. **Prediction of the acceleration and stopping manoeuvres of a bare hull surface combatant by closed-form solutions and CFD**
DUMAN S., Bal Ş.
OCEAN ENGINEERING, vol.235, 2021 (Journal Indexed in SCI)
- III. **Asymmetric ship maneuvering due to twisted rudder using system-based and direct CFD approaches**
Sukas O. F. , Kınacı Ö. K. , Bal Ş.
APPLIED OCEAN RESEARCH, vol.108, 2021 (Journal Indexed in SCI)
- IV. **Effective wake estimation of KCS hull at full-scale by GEOSIM method based on CFD**
Can U., Delen C., Bal Ş.
Ocean Engineering, vol.218, 2020 (Journal Indexed in SCI)
- V. **A computational investigation of noise spectrum due to cavitating and non-cavitating propellers**
Sezen S., Bal Ş.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART M-JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT, vol.234, no.2, pp.374-387, 2020 (Journal Indexed in SCI)
- VI. **Computational and Empirical Investigation of Propeller Tip Vortex Cavitation Noise**
Sezen S., Bal Ş.
CHINA OCEAN ENGINEERING, vol.34, no.2, pp.232-244, 2020 (Journal Indexed in SCI)
- VII. **Theoretical background and application of MANSIM for ship maneuvering simulations**
Sukas O. F. , Kınacı Ö. K. , Bal Ş.
Ocean Engineering, vol.192, 2019 (Journal Indexed in SCI)
- VIII. **TELFER'S GEOSIM METHOD REVISITED BY CFD**
Delen C., Bal Ş.
INTERNATIONAL JOURNAL OF MARITIME ENGINEERING, vol.161, 2019 (Journal Indexed in SCI)
- IX. **A Practical Method for Propeller Noise**
Bal Ş., Soydan A.

Naval Architect, no.1, pp.50-51, 2019 (Journal Indexed in SCI Expanded)

- X. **A quick-responding technique for parameters of turning maneuver**
DUMAN S., Bal Ş.
OCEAN ENGINEERING, vol.179, pp.189-201, 2019 (Journal Indexed in SCI)
- XI. **System-based prediction of maneuvering performance of twin-propeller and twin-rudder ship using a modular mathematical model**
SUKAS O. F. , KINACI Ö. K. , Bal Ş.
APPLIED OCEAN RESEARCH, vol.84, pp.145-162, 2019 (Journal Indexed in SCI)
- XII. **PREDICTION OF HYDRODYNAMIC PERFORMANCE OF 3-D WIG BY IBEM**
Bal Ş.
INTERNATIONAL JOURNAL OF MARITIME ENGINEERING, vol.160, 2018 (Journal Indexed in SCI)
- XIII. **Investigation of self-propulsion of DARPA Suboff by RANS method**
Sezen S., Doğrul A., Delen C., Bal Ş.
OCEAN ENGINEERING, vol.150, pp.258-271, 2018 (Journal Indexed in SCI)
- XIV. **Prediction of wave resistance by a Reynolds-averaged Navier-Stokes equation-based computational fluid dynamics approach**
Kinaci O. K. , Sukas O. F. , Bal Ş.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART M-JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT, vol.230, no.3, pp.531-548, 2016 (Journal Indexed in SCI)
- XV. **Cavitation simulation on horizontal axis marine current turbines**
Usar D., Bal S.
RENEWABLE ENERGY, vol.80, pp.15-25, 2015 (Journal Indexed in SCI)
- XVI. **Numerical simulation of flow around two- and three-dimensional partially cavitating hydrofoils**
ÇELİK F., ARIKAN ÖZDEN Y., Bal Ş.
OCEAN ENGINEERING, vol.78, pp.22-34, 2014 (Journal Indexed in SCI)
- XVII. **The Effect of Finite Depth on 2 D and 3 D Cavitating Hydrofoils**
Bal Ş.
Journal of Marine Science and Technology, vol.16, no.2, pp.129-142, 2011 (Journal Indexed in SSCI)
- XVIII. **The effect of finite depth on 2D and 3D cavitating hydrofoils**
Bal Ş.
JOURNAL OF MARINE SCIENCE AND TECHNOLOGY, vol.16, no.2, pp.129-142, 2011 (Journal Indexed in SCI)
- XIX. **A practical technique for improvement of open water propeller performance**
Bal S.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART M-JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT, vol.225, pp.375-386, 2011 (Journal Indexed in SCI)
- XX. **Performance analysis of podded propulsors**
Bal Ş., GÜNER M.
OCEAN ENGINEERING, vol.36, no.8, pp.556-563, 2009 (Journal Indexed in SCI)
- XXI. **Performance prediction of surface-piercing bodies in numerical towing tank**
Bal S.
INTERNATIONAL JOURNAL OF OFFSHORE AND POLAR ENGINEERING, vol.18, no.2, pp.106-111, 2008 (Journal Indexed in SCI)
- XXII. **Prediction of wave pattern and wave resistance of surface piercing bodies by a boundary element method**
Bal S.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, vol.56, no.3, pp.305-329, 2008 (Journal Indexed in SCI)
- XXIII. **A numerical method for the prediction of wave pattern of surface piercing cavitating hydrofoils**
Bal S.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.221, no.12, pp.1623-1633, 2007 (Journal Indexed in SCI)

- XXIV. **High-speed submerged and surface piercing cavitating hydrofoils, including tandem case**
Bal S.
OCEAN ENGINEERING, vol.34, pp.1935-1946, 2007 (Journal Indexed in SCI)
- XXV. **A numerical wave tank model for cavitating hydrofoils**
Bal S., Kinnas S.
COMPUTATIONAL MECHANICS, vol.32, pp.259-268, 2003 (Journal Indexed in SCI)
- XXVI. **A BEM for the prediction of free surface effects on cavitating hydrofoils**
Bal Ş., Kinnas S.
COMPUTATIONAL MECHANICS, vol.28, pp.260-274, 2002 (Journal Indexed in SCI)
- XXVII. **Numerical analysis of 2-D and 3-D cavitating hydrofoils under a free surface**
Bal Ş., Kinnas S., Lee H.
JOURNAL OF SHIP RESEARCH, vol.45, no.1, pp.34-49, 2001 (Journal Indexed in SCI)
- XXVIII. **A potential based panel method for 2-D hydrofoils**
Bal S.
OCEAN ENGINEERING, vol.26, no.4, pp.343-361, 1999 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Su Altı Araçlarının Manevra Karakteristiklerinin Değerlendirilmesi-II: Akışkan Sınırlarının Etkileri**
Kırıkbaş O., KINACI Ö. K. , BAL Ş.
Gemi ve Deniz Teknolojisi, no.220, 2021 (Other Refereed National Journals)
- II. **Comparison Of The Rules Of Classification Societies (IACS Members) In The Area Of Submersible Maneuvering**
Kırıkbaş O., BAL Ş., BAYKAL M. A.
European Journal of Science and Technology, no.28, pp.178-183, 2021 (Other Refereed National Journals)
- III. **Sualtı Araçlarının Manevra Karakteristiklerinin Değerlendirilmesi-I: Manevra Analizlerinde Kullanılan Yaklaşımlar**
Kırıkbaş O., KINACI Ö. K. , BAL Ş.
Gemi ve Deniz Teknolojisi Dergisi, vol.219, pp.6-58, 2021 (Other Refereed National Journals)
- IV. **An investigation of scale effects on marine propeller under cavitating and non-cavitating conditions**
Soydan A., Bal Ş.
SHIP TECHNOLOGY RESEARCH, 2021 (Journal Indexed in ESCI)
- V. **Inclination angle influence on noise of cavitating marine propeller**
Bal Ş.
OCEAN SYSTEMS ENGINEERING-AN INTERNATIONAL JOURNAL, vol.10, no.1, pp.49-65, 2020 (Journal Indexed in ESCI)
- VI. **Inclination Angle Influence on Cavitating Marine Propeller**
BAL Ş.
TAMAP Journal of Engineering, vol.2019, pp.1-11, 2019 (Other Refereed National Journals)
- VII. **Numerical Investigation of Propeller Skew Effect on Cavitation**
BAL Ş.
Journal of ETA Maritime Science, vol.7, pp.127-136, 2019 (Journal Indexed in ESCI)
- VIII. **A Practical Method for Propeller Noise**
Soydan A., BAL Ş.
Naval Architect, pp.50-51, 2019 (Refereed Journals of Other Institutions)
- IX. **AN EMPIRICAL APPROACH FOR PROPELLER TIP VORTEX CAVITATION NOISE**
Sezen S., DOĞRUL A., Bal Ş.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.36, no.4, pp.1125-1137, 2018 (Journal Indexed in ESCI)
- X. **LCG Effects on Resistance, Lift and Trim Characteristics of R/V Athena Hull**

- DUMAN S., ŞENER B., BAL Ş.
International Journal of Small Craft Technology, vol.160, pp.43-56, 2018 (Refereed Journals of Other Institutions)
- XI. **Gemilerin manevra performans tahminleri için genel bir değerlendirme 2**
SUKAS Ö. F. , KINACI Ö. K. , BAL Ş.
Gemi ve Deniz Teknolojisi, vol.23, pp.76-105, 2017 (Other Refereed National Journals)
- XII. **Gemilerin manevra performans tahminleri için genel bir değerlendirme 1**
SUKAS Ö. F. , KINACI Ö. K. , BAL Ş.
Gemi ve Deniz Teknolojisi, vol.23, no.210, pp.37-75, 2017 (Other Refereed National Journals)
- XIII. **Prediction of the turning and zig-zag maneuvering performance of a surface combatant with URANS**
DUMAN S., Bal Ş.
OCEAN SYSTEMS ENGINEERING-AN INTERNATIONAL JOURNAL, vol.7, no.4, pp.435-460, 2017 (Journal Indexed in ESCI)
- XIV. **A Review on Prediction of Ship Manoeuvring Performance, Part 1**
SUKAS Ö. F. , KINACI Ö. K. , Bal Ş.
GMO Journal of Ship and Marine Technology, vol.210, pp.37-75, 2017 (Other Refereed National Journals)
- XV. **Some Remarks on the Three Dimensionality of Hydrofoil Cavitation**
KARAALIOĞLU M. S. , BAL Ş.
Turkish Journal of Maritime and Marine Sciences, 2017 (Other Refereed National Journals)
- XVI. **Computational Investigation of Self Propulsion Performance of DARPA SUBOFF Vehicle**
DELEN C., SEZEN S., BAL Ş.
TAMAP Journal of Engineering, no.4, pp.1-12, 2017 (Refereed Journals of Other Institutions)
- XVII. **Tip Vortex Index (TVI) Technique for Inboard Propeller Noise Estimation**
SEZEN S., DOĞRUL A., BAL Ş.
GMO Journal of Ship and Marine Technology, no.207, pp.27-37, 2017 (Refereed Journals of Other Institutions)
- XVIII. **Free surface effects on 2-D airfoils and 3-D wings moving over water**
Bal Ş.
OCEAN SYSTEMS ENGINEERING-AN INTERNATIONAL JOURNAL, vol.6, no.3, pp.245-264, 2016 (Journal Indexed in ESCI)
- XIX. **Hidrofoillerin Kaviteasyon Zarf Eğrilerinin Sayısal Olarak İncelenmesi**
karaalioğlu m. s. , BAL Ş.
Journal of Maritime and Marine Sciences, vol.1, no.2, pp.28-40, 2015 (Other Refereed National Journals)
- XX. **Uncertainty analysis of resistance tests in Ata Nutku ShipModel Testing Laboratory of Istanbul Technical University**
Delen C., Bal Ş.
Journal of Maritime and Marine Sciences, vol.1, no.2, pp.69-88, 2015 (Refereed Journals of Other Institutions)
- XXI. **INVESTIGATION OF FREE SURFACE EFFECTS OF A 2-D SOURCE MOVING WITH CONSTANT VELOCITY**
DOĞRUL A., Bal Ş., ÇELİK F.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.6, no.1, pp.149-156, 2015 (Journal Indexed in ESCI)
- XXII. **Numerical Investigation of Cavitation Buckets for Hydrofoils Parametrically**
Karaalioğlu M. S. , Bal Ş.
Journal of Maritime and Marine Sciences, vol.1, pp.28-40, 2015 (National Refreed University Journal)
- XXIII. **Effects of 2D Source Singularity Moving with Constant Speed on Free Surface**
DOĞRUL A., BAL Ş., ÇELİK F.
Sigma Journal of Engineering and Natural Sciences, vol.5, no.1, pp.149-156, 2015 (Other Refereed National Journals)
- XXIV. **Performance prediction of horizontal axis marine current turbines**
Bal Ş., Atlar M., Usar D.
OCEAN SYSTEMS ENGINEERING-AN INTERNATIONAL JOURNAL, vol.5, no.2, pp.125-138, 2015 (Journal Indexed in ESCI)
- XXV. **Numerical simulation of the flow around two-dimensional partially cavitating hydrofoils**

- ÇELİK F., Ozden Y. A. , Bal Ş.
Journal of Marine Science and Application, vol.13, no.3, pp.245-254, 2014 (Refereed Journals of Other Institutions)
- XXVI. **On Propeller Performance of DTC Post Panamax Container Ship**
KINACI Ö. K. , KÜKNER A., BAL Ş.
International Journal of Ocean System Engineering, vol.3, no.2, pp.77-89, 2013 (Refereed Journals of Other Institutions)
- XXVII. **Rudder Effect on Propeller Wake Surface**
KINACI Ö. K. , Kükner A., Bal Ş.
Journal of Naval Architecture and Marine Technology, no.191, pp.12, 2012 (Other Refereed National Journals)
- XXVIII. **Marmara Denizinde Ambulans Sistemi**
Aydın M., Bal Ş., Şener B., Yıldız B.
Gemi Mühendisleri Odası Dergisi, no.190, pp.17-23, 2012 (Other Refereed National Journals)
- XXIX. **Numerical Calculation of Cavitation Buckets for 2-D Hydrofoils**
Seber S., Ekinci S., Bal Ş.
Sigma Journal of Engineering and Natural Sciences, vol.30, pp.266-280, 2012 (National Refreed University Journal)
- XXX. **Kara ve Deniz Bağlantılı Marmara Ambulans Sistemi (MAS),M.AYDIN**
Aydın M., Bal Ş., Yılmaz A. İ. , Şener B., Kınacı Ö. K. , Kepçeler T., Gündoğdu O., Yıldız B.
Gemi ve Deniz Teknoloji Dergisi, no.190, pp.17-23, 2012 (Other Refereed National Journals)
- XXXI. **Pervanenin İz Yüzeyi Üzerinde Dümen Etkisinin İncelenmesi İçin Bir Uygulama**
KINACI Ö. K. , KÜKNER A., BAL Ş.
Gemi ve Deniz Teknolojisi, pp.12-15, 2012 (Other Refereed National Journals)
- XXXII. **Kara ve Deniz Bağlantılı Marmara Ambulans Sistemi MAS**
AYDIN M., BAL Ş., KEPCELER T., GÜNDOĞDU O., ŞENER B., KINACI Ö. K. , YILDIZ B., YILMAZ A. İ.
Gemi ve Deniz Teknolojisi, pp.17-23, 2012 (Other Refereed National Journals)
- XXXIII. **A method for optimum cavitating ship propellers**
Bal Ş.
Turkish Journal of Engineering and Environmental Sciences, vol.35, no.3, pp.139-158, 2011 (Refereed Journals of Other Institutions)
- XXXIV. **Computation of Optimum Cavitating Ship Propellers**
Bal Ş.
Journal of Naval Architecture and Marine Technology, no.187, pp.29-33, 2011 (Other Refereed National Journals)
- XXXV. **Hydrodynamic Performance of Ship Propellers**
Bal Ş.
Shipyards, no.17, pp.32-36, 2010 (Other Refereed National Journals)
- XXXVI. **Peformance Investigation of Podded Propellers**
Bal Ş., GUNER M.
Boat Builder, no.22, pp.48-53, 2010 (Other Refereed National Journals)
- XXXVII. **Podlu Pervanelerin Performanslarının İncelenmesi**
BAL Ş.
Boat Builder - Türkiye, no.22, pp.48-53, 2010 (Other Refereed National Journals)
- XXXVIII. **Gemi Pervanelerinin Hidrodinamik Olarak İncelenmesi**
BAL Ş.
Tersane, no.17, pp.32-36, 2010 (Other Refereed National Journals)
- XXXIX. **Analysis of Podded Propulsors by a Numerical Method**
Bal Ş., GUNER M.
ITU Journal, vol.8, pp.3-16, 2009 (National Refreed University Journal)
- XL. **Numerical prediction of wave drag of 2-D and 3-D bodies under or on a free surface**
USLU Y., Bal Ş.
Turkish Journal of Engineering and Environmental Sciences, vol.32, no.3, pp.177-188, 2008 (Refereed Journals of Other Institutions)
- XLI. **Podlu pervane analizi için bir yöntem**

BAL Ş., AKYILDIZ H., GÜNER M.

Gemi ve Deniz Teknolojisi, 2006 (Other Refereed National Journals)

XLII. A Numerical Method for Podded Propulsors

Akyıldız H., GUNER M., Bal Ş.

Journal of Naval Architecture and Marine Technology, no.170, pp.13-19, 2006 (Other Refereed National Journals)

XLIII. A Numerical Method for Analysis of Podded Propellers

Bal Ş.

Bulletin of Turkish Naval Academy, no.42, pp.43-59, 2006 (Other Refereed National Journals)

XLIV. Lift and Drag Characteristics of Cavitating Swept and V-Type Hydrofoils

Bal Ş.

INTERNATIONAL JOURNAL OF MARITIME ENGINEERING, vol.147, pp.51-64, 2005 (Refereed Journals of Other Institutions)

XLV. Hydrodynamic Analysis of Two-dimensional Profiles with Flap

Ünal U. O. , Bal Ş.

Journal of Naval Architecture and Marine Technology,, no.157, pp.21-26, 2002 (Other Refereed National Journals)

XLVI. A panel method for the potential flow around 2-D hydrofoils

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Memberships / Tasks in Scientific Organizations

- Fellow, İngiltere, Member, 2017 - Continues
- Society of Naval Architects and Marine Engineers, USA, Member, 2000 - Continues
- TMMOB Gemi Mühendisleri Odası, Member, 1989 - Continues
- Technical Program Committee, International Society of Offshore and Polar Engineers, Member, 2006 - 2011

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