

# Predictive Maintenance



**28.Abu - 30.Abu**

**Kod. Z20-19**

**Edizioa**

2019

**Jadueria mota**

Ikastaroa

**Data**

28.Abu - 30.Abu

**Kokalekua**

Miramar Jauregia

**Hizkuntzak**

Ingelera

**Balio akademikoa**

30 ordu

**ZUZENDARITZA**

**Basilio Sierra Araujo**, Facultad de Informática. UPV/EHU, Ciencias de la Computación e Inteligencia Artificial

**Antolakuntza Batzordea**

Fundación **BBVA**



Gipuzkoako Foru Aldundia  
Diputación Foral de Gipuzkoa



DONOSTIA  
SAN SEBASTIÁN

## Azalpena

Programa honen bitartez mantentze lanetako eta mantentzea planifikatzeko estrategiak aurkeztu nahi dira, mantentze prediktiboko estrategia barne. Programak *Condition Monitoring*eko tekniken praktika ere bilduko du, bibrazioen analisia, igorpen akustikoen monitorizatzea, olio analisia eta aplikazio industrialak barne. Bertaratutako guztiei animatuko zaie *Condition Monitoring*eko Proiektuen Lehiaketan parte hartzera.

## Helburuak

Mantentzearen eta mantentzearen plangintzaren hastapenak.

Mantentze estrategiak eta mantentze prediktiboa.

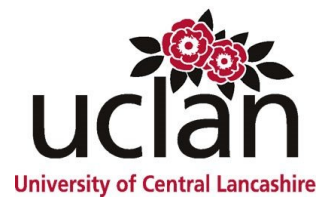
*Condition Monitoring* teknikak; bibrazioen azterketa, igorpen akustikoen monitorizatzea, olioan analisia.

Aplikazio industrialak makineriaren bibrazioen analisian.

Mantentzearen plangintza.

*Condition Monitoring*eko sistema adimendunak garatzea adimen artifizialaren bidez.

## Ikastaroaren laguntzaile espezifikoak



## Programa

### 2019-08-28

09:00 - 09:15 Registration

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09:15 - 10:30 *"Machine Learning"*

**Basilio Sierra Araujo** UPV/EHU - Profesor

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10:30 - 10:45 Geldiunea

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10:45 - 12:00 *"Pair-wise classification"*

**Iñigo Mendialdua Beitia** UPV/EHU - Profesor

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### 2019-08-29

09:15 - 10:30 *"Data Analysis"*

**Itziar Irigoien Garbizu** UPV/EHU - Profesora

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10:30 - 10:45 Geldiunea

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10:45 - 12:15 *"Computer Vision Approaches"*

**Naiara Aginako Bengoa** UPV/EHU - Profesor

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### 2019-08-30

09:15 - 11:00 *"Lubrication"*

**Estibaliz Aranzabe** IK4-TEKNIKER - Investigadora Senior

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11:00 - 11:15 Geldiunea

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11:15 - 13:00 *"Tribology"*

**Amaya Igartua Aranzabel** IK4-TEKNIKER - Investigadora Senior

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13:30 - 14:00 Sintesia



## Zuzendariak



### **Basilio Sierra Araujo**

Facultad de Informática. UPV/EHU, Ciencias de la Computación e Inteligencia Artificial  
(Donostia)

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Full Professor in the Computer Sciences and Artificial Intelligence Department at the University of the Basque Country. He received his B.Sc. in Computer Sciences in 1990, M.Sc. in Computer Science and Architecture in 1992 and Ph.D. in Computer Sciences in 2000 at the University of the Basque Country. He is codirector of the Robotics and Autonomous Systems Group in Donostia-San Sebastian. Prof. Sierra is presently a researcher in the fields of Robotics and Machine Learning, and he is working on the use of different paradigms to improve behaviours.

## Irakasleak



### **Naiara Aginako Bengoa**

UPV/EHU

*(Donostia/San Sebastián)*

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Naiara Aginako Bengoa got a degree in Telecommunications Engineering from the University of the Basque Country in 2005. From 2003 until 2005, she collaborated the Signal Processing and Communication Group of the Electronics and Telecommunications department. She developed and managed research projects in Vicomtech from 2005 until 2015, in the Digital Media Department. Since 2015 she has been teaching in the Polytechnic School of Donostia and the Faculty of Informatics. She received her PhD in Image Analysis and Content-Based Retrieval of images and video. Her work as a researcher counts on a number of publications and on two patents.



### **Estibaliz Aranzabe**

Tekniker

*(Eibar)*

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### **Amaya Igartua Aranzabel**

Tekniker, Coordinación de iniciativas de materiales

*(Eibar)*

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Dr. Amaya Igartua, is actually the Coordinator of European Actions in Materials in the Research Institution IK4-TEKNIKER and co-secretary of the European Platform of Materials EUMAT. She has been during the last 10 years, the Head of the Tribology Unit in IK4-TEKNIKER a team of 22 researchers with 8 PHD. She has been participating in 50 EU Projects coordinating 3 of them, and she is author of >200 publications in Congress, Papers and Book chapters. She has been active in COST 516 Tribology, COST 532 Tribotechnology of engines and transmissions, COST 533 Biotribology, in VTI (Virtual Tribology Institute), in ENIWEP (Eureka action for Wear prevention), in E-Surf (Eureka Umbrella for functional Surfaces). Now she is active in European Materials Modelling Council (EMMC), in European Materials Characterization Council (EMCC), in JTI Biomass for Industry, in KMM (European Virtual Institute on Knowledge-based Multifunctional Materials), X-Tribology Competence Center, Network of plastics.



**Itziar Irigoien Garbizu**

UPV/EHU

*(Donostia/San Sebastián)*

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She received her PhD in Computer Sciences in 2008 at the University of the Basque Country (UPV/EHU). She is currently an associate professor in the CSAI Department at the University of the Basque Country since 2011. She is member of the research group RSAIT which works in in the area of mobile robotics, where statistical and machine learning techniques are applied in order to increase the degree of autonomy of our robots. Her research interests also include the development of new statistical methods to solve bioinformatics and biomedical questions, particularly focusing on distances based data analysis techniques. The publications include journals indexed by the Journal Citation Report (JCR). She participates regularly in relevant conferences in the field.



**Iñigo Mendialdua Beitia**

UPV/EHU

*(Donostia/San Sebastián)*

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Received the B.Sc. Degree in Computer Science from the University of the Basque Country, Spain, in 2007 and is pursuing the Ph.D. degree from the Department of Computer Science and Artificial Intelligence, University of the Basque Country. His current research interests include distance-based algorithms, multi-classifiers and decomposition strategies.



## Matrikula prezioak

<b>MATRIKULA</b>	<b>2019-05-31 ARTE</b>	<b>2019-08-28 ARTE</b>
<a href="#"><u>OROKORRA</u></a>	81,00 EUR	-
<a href="#"><u>MATRIKULA MURRIZTUA</u></a>	48,00 EUR	-
<a href="#"><u>MATRIKULA EXENTZIOA</u></a>	20,00 EUR	20,00 EUR
<a href="#"><u>OROKORRA</u></a>	-	95,00 EUR
<a href="#"><u>UCLAN Unibertsitateko ikasleak</u></a>	-	0 EUR

## **Kokalekua**

### **Miramar Jauregia**

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Gipuzkoa