

UNIVERSIDAD DE BUENOS AIRES

FACULTAD DE CIENCIAS EXACTAS Y NATURALES

DEPARTAMENTO: Computación.....

ASIGNATURA: Laboratorio VIII (Adquisición Automática de Reglas)

CARRERA/S: Lic. en Cs. de la Computación.....

CARACTER: Optativa (Plan 82), Obligatoria Plan '87.

PUNTAJE: 4 puntos.....(en caso de ser optativa).

DURACION DE LA MATERIA: Cuatrimestral.....(indicar si es cuatrimestral o anual).

HORAS DE CLASE: a) TEORICAS....3..Hs. b) PROBLEMAS....-....Hs.
c) LABORATORIO.3..Hs d) SEMINARIOS...-....Hs.
e) TOTALES.....6..Hs.

ASIGNATURAS CORRELATIVAS. Inteligencia Artificial, Laboratorio VII

PROGRAMA:

Unidad 1: Introducción al Aprendizaje Automático.

- Introducción, definición, conceptos generales
Orientaciones de las investigaciones
Clasificaciones de los modelos de aprendizaje
Aprendizaje Humano vs Aprendizaje Automático
Reseña histórica

Unidad 2: Teoría y Metodología del Aprendizaje Inductivo

- Conceptos generales. Aprendizaje como Búsqueda Heurística
Un paradigma general
Generalización, reglas

Unidad 3: Algoritmos de adquisición de reglas a partir de ejemplos

- Espacio de Versiones
Algoritmos STAR, VERE
Algoritmo ID3 (Quinlan)
Otros sistemas comerciales

Unidad 4: Ampliaciones para manejo de datos reales.

- Control de ruidos
Incrementalidad
Variables continuas, nominales y estructurales
Cambio de representación

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aprobado por Resolución
CD 271/91

Unidad 5: Desarrollo de un prototipo de adquisición de conocimiento.

Especificación de un algoritmo
Construcción del prototipo
Evaluación del mismo (complejidad, problemas resueltos.)

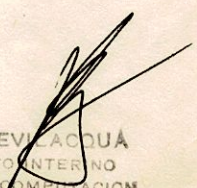
UNIDAD 6: Desarrollo de la herramienta

Generación del producto final
Conclusiones sobre el trabajo realizado (campos de aplicación, problemas abiertos, mejoras posibles).

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[PIJCAI-85] Varios. Proceedings IJCAI 85.
[RUSEL-CME] Russell B. Nuestro conocimiento del mundo exterior.
[RUSEL-SYV] Russell B. Significado y verdad.


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Referencias generales - Publicaciones.

[ACMCS]	ACM Computing Surveys
[AIM]	Artificial Intelligence Magazine
[AIJ]	Artificial Intelligence Journal
[CACM]	Communications of ACM
[CS]	Cognitive Science
[DSS]	Decision Support Systems
[IJMMS]	International Journal of Man-Machine Studies
[JACM]	ACM Journal
[MLJ]	Machine Learning Journal
[PIJCAI]	Proceedings of Int. Journal of Artificial Intelligence

Articulos.

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Firma del Director Adjunto

Aclaración de firma

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