UNIVERSIDAD DE BUENOS AIRES

FACULTAD DE CIENCIAS EXACTAS Y NATURALES

DEPARTAMENTO: Computación.............................

ASIGNATURA: ..███████████████████.................

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

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CARACTER:...optativa......(indicar si es obligatoria u optativa)

PUNTAJE:.......3..........(en caso de ser optativa)

DURACION DE LA MATERIA:..cuatrimestral.....(indicar si es cuatri-
mestral o anual).

HORAS DE CLASE: a) TEO/PRAC....5. HS.   b) PROBLEMAS .... HS.
                c) LABORATORIO... HS.   d) SEMINARIOS........ HS.
                e) TOTALES.....5. HS.

ASIGNATURAS   CORRELATIVAS:..Modelos   Computacionales   de
Aprendizaje.......
...Adquisición Automáticas de Reglas o Laboratorio VIII-A
   Generación Automática de Conceptos
   Modelos de Aprendizaje Analógico...

PROGRAMA:

Parte 1: Introducción al Aprendizaje Automático
        Introducción, definición, conceptos generales.
        Orientaciones   de   la   investigaciones,   campos   de
aplicación.
        Una caracterización de los modelos de aprendizaje.
        Aprendizaje Humano vs Aprendizaje Automático.
        Reseña histórica.
        TP1: Investigación del tema en base a árticulos.

Parte 2: Algoritmos inductivos básicos
        La   inducción   como   Búsqueda   Heurística.   Un   paradigma
general.
        Reglas de Generalización.
        Espacio de Versiones y Eliminación de candidatos.
        Algunos ejemplos: EC, IDX, STAR y VERE.
        TP2:   Pruebas,   análisis   y   mejoras   a   los   algoritmos
básicos, utilización de artículos.

Parte 3: Utilización   de   herramientas   extracción   automática   de
        conocimiento.
        Características de las areas de aplicación apropiadas.
        Técnicas   de   obtención   y   validación   de   conjuntos   de
entrenamiento.
        Implementación   de   algoritmos   de   extracción   de
        conocimiento a partir de ejemplos.
        Análisis   de   resultados   para   la   determinación   de
extensiones.
        Implentación de extensiones.
              Consideraciones   finales,   análisis de resultados y
posibles mejoras.
        Otros modelos de aprendizaje.
        Informe final.

Bibliografía

NOTA: La bibliografía presentada en solo orientativa y puede ser ampliada durante el transcurso de cuatrimestre, de cualquier forma, siempre será provista por la cátedra.

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

Artículos

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[AIH-14D]   Feigembaun, Cohen.   Learning From Examples. AIH-III:3:14-D:36.

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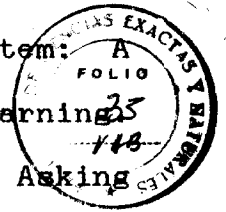[LANGL-83c] Langley Pat. Representational Issues un Learning Systems. IEEE-Expert:83/10: 47.

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A. KVITCA

Lic. IRENE LOISEAU
DIRECTORA
Depto. de Computación
F.C.E. y N. - U.B.A.