Universitatea "Babes-Bolyai" Cluj-Napoca
Facultatea de Matematica si Informatica
FISA DISCIPLINEI

Semantica limbajelor de programare

Cod	Semes-trul	Ore: C+S+L	Credite	Tipul	Specializarea
MI055	7	2+0+2	6	optionala	Informatica

Cadre didactice indrumatoare

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Obiective

- Intelegerea notiunii de semantica a unui limbaj;
- Cunoasterea diferitelor modalitati de definire a semanticii unui limbaj de programare;
- Aplicarea unui instrument de specificarea pentru un anumit limbaj.

Continut

1. Notiunea de semantica a unui limbaj
2. Criterii de specificare.
3. Gramatici de atribute
4. Metode manuale.
5. Scheme de traducere orientata de sintaxa.
6. Semantica operationala.
7. Semantica denotationala.

Bibliografie

1. BAUER, F.L. - WOSSNER, H.: Algorithmic language and program development, Springer-Verlag, Berlin,1982.
2. GIANNINI, P. - LONGO, G.: Effectively given domains and lambda-calculus semantics, Information and Control, 62(1984) no. 1, pp. 36-63.
3. HOARE, C.A.R. - WIRTH, NICHOLAS: An axiomatic definition of the programming language Pascal, Acta Informatica, 1973 no.2, pp. 335-355.
4. LONGO, G.: Set-Theoretical models of Lambda-Calculus: Theories, Expansions, Isomor-phisms, Annals of Pure and Applied Logic, 1983 no.24, pp. 153-188.
5. HOARE, C.A.R. - LAUER, P.: Consistent and Complementary definitions of the semmantics of programming languages, Acta Informatica, 1973 no.3, pp. 135-153.
6. GRUNE, DICK - BAL, H. - JACOBS, C. - LANGENDOEN, K.: Modern Compiler Design, John Wiley, 2000
7. SERBANATI, L.D.: Limbaje de programare si compilatoare, Ed. Academiei RSR, 1987

Evaluare

Nota finala se va calcula pe baza:
- prezentare referat 20%
- proiect 30%
- examen final 50%