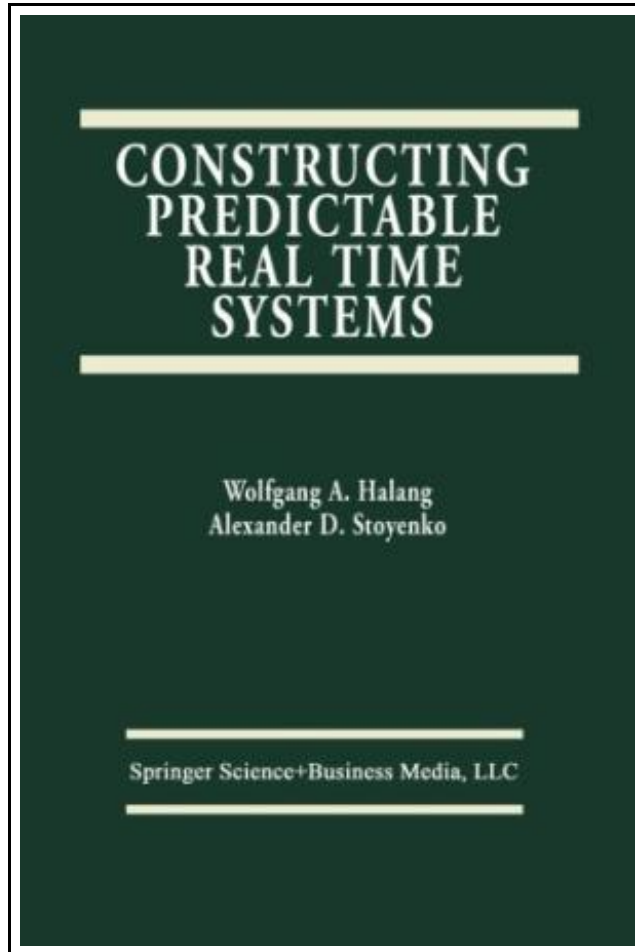


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Book Condition: New. Publisher/Verlag: Springer, Berlin | Vorwort In der Natur entwickelten sich die Echtzeitsysteme seit einigen 100 Millionen Jahren. Tierische Nervensysteme haben zur Aufgabe, auf die Nachrichten aus der Umwelt die Steuerungsbefehle an die aktiven Organen zu geben. Dabei spielen zum Beispiel bedingte Reflexe eine wichtige Rolle. Vielleicht kann man die Entstehung des Menschen etwa zu der Zeit ansetzen, als sich allmählich entwickelndes Gehirn Gedanken entwickelte, deren Bedeutung in vorausplanender Weise über die gerade vorliegende Situation hinausging. Das führte schließlich unter anderem zum heutigen Wissenschaftler, der seine Theorien und Systeme aufgrund langwieriger Überlegungen aufbaut. Die Entwicklung der Computer ging im wesentlichen den umgekehrten Weg. Zunächst diente sie nur der Durchführung "starrer" Programme, wie z.B. das erste programmgesteuerte Rechengerat Z3, das der Unterzeichner im Jahre 1941 vorführen konnte. Es folgte unter anderem ein Spezialgerät zur Flügelvermessung, das man als den ersten Prozessrechner bezeichnen kann. Es wurden etwa vierzig als Analog Digital-Wandler arbeitende Messuhren vom Rechnerautomaten abgelesen und im Rahmen eines Programms als Variable verarbeitet. Außerdem; auch das erfolgte noch in starrer Reihenfolge. Die echte Prozesssteuerung - heute auch Echtzeitsysteme genannt - erfordert aber ein Reagieren auf beständig wechselnde Situationen. |

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